

云函数

API 文档

产品文档



腾讯云

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History

最近更新时间：2023-07-18 11:10:58

Release 22

Release time: 2023-07-18 11:07:14

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTrigger](#)
 - New input parameters:Description

Modified data structures:

- [Trigger](#)
 - New members:Description
 - **Modified members:** ResourceId, BindStatus, TriggerAttribute
 - **Deprecate members:** ResourceId, BindStatus, TriggerAttribute
- [TriggerInfo](#)
 - New members:Description
 - **Modified members:** ResourceId, BindStatus, TriggerAttribute
 - **Deprecate members:** ResourceId, BindStatus, TriggerAttribute

Release 21

Release time: 2023-05-05 10:14:34

Release updates:

Improvement to existing documentation.

New APIs:

- [UpdateTriggerStatus](#)

Modified data structures:

- [ImageConfig](#)
 - New members:ContainerImageAccelerate, ImagePort
- [LayerVersionInfo](#)
 - New members:Stamp
- [TriggerCount](#)
 - New members:Eb

Release 20

Release time: 2022-06-07 15:55:08

Release updates:

Improvement to existing documentation.

Modified data structures:

- [NamespaceUsage](#)
 - New members:TotalAllocatedProvisionedMem

Release 19

Release time: 2022-04-14 18:57:27

Release updates:

Improvement to existing documentation.

Deleted APIs:

- CreateFunction
- GetFunction
- UpdateFunctionConfiguration

Modified APIs:

- [PutProvisionedConcurrencyConfig](#)
 - New input parameters:ProvisionedType, TrackingTarget, MinCapacity, MaxCapacity

Deleted data structures:

- AccessInfo
- CfsConfig
- CfsInsInfo
- DeadLetterConfig
- EipConfigIn
- EipConfigOut
- EipOutConfig
- Environment
- LayerVersionSimple
- ProtocolParams
- PublicNetConfigIn
- PublicNetConfigOut
- Variable
- VpcConfig
- WSParams

Modified data structures:

- [NamespaceUsage](#)
 - New members:TotalConcurrencyMem, TotalAllocatedConcurrencyMem

Release 18

Release time: 2022-02-16 11:24:35

Release updates:

Improvement to existing documentation.

Modified data structures:

- [TriggerAction](#)
 - New members:ProvisionedType

Release 17

Release time: 2022-01-14 14:45:11

Release updates:

Improvement to existing documentation.

New APIs:

- [GetAsyncEventStatus](#)
- [GetRequestStatus](#)

Modified APIs:

- [DeleteFunction](#)
 - New input parameters:Qualifier
- [UpdateFunctionCode](#)
 - New input parameters:InstallDependency
 - **Modified input parameters:** Handler

New data structures:

- [AsyncEventStatus](#)
- [RequestStatus](#)

Modified data structures:

- [FunctionVersion](#)
 - New members:Status

Release 16

Release time: 2021-12-14 17:25:17

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateFunction](#)
 - New input parameters:InstallDependency, ProtocolType, ProtocolParams
- [GetFunction](#)
 - New output parameters:ProtocolType, ProtocolParams
- [UpdateFunctionConfiguration](#)
 - New input parameters:InstallDependency, ProtocolParams

New data structures:

- ProtocolParams
- WSParams

Release 15

Release time: 2021-11-30 14:59:23

Release updates:

Improvement to existing documentation.

Modified APIs:

- [PutProvisionedConcurrencyConfig](#)
 - New input parameters:TriggerActions
- [TerminateAsyncEvent](#)
 - New input parameters:GraceShutdown

New data structures:

- [TriggerAction](#)

Modified data structures:

- [VersionProvisionedConcurrencyInfo](#)
 - New members:TriggerActions

Release 14

Release time: 2021-10-26 11:43:37

Release updates:

Improvement to existing documentation.

New data structures:

- [ImageConfig](#)

Modified data structures:

- [Code](#)
 - New members:ImageConfig

- [Function](#)
 - New members:AsyncRunEnable, TraceEnable

Release 13

Release time: 2021-09-10 17:16:08

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ListNamespaces](#)
 - New input parameters:SearchKey

New data structures:

- [SearchKey](#)

Release 12

Release time: 2021-08-20 10:01:15

Release updates:

Improvement to existing documentation.

Modified APIs:

- [GetFunction](#)
 - New output parameters:AsyncRunEnable, TraceEnable

Release 11

Release time: 2021-07-23 19:47:50

Release updates:

Improvement to existing documentation.

New APIs:

- [InvokeFunction](#)

Release 10

Release time: 2021-05-25 17:02:58

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateFunction](#)
 - New input parameters: [AsyncRunEnable](#), [TraceEnable](#)

Release 9

Release time: 2021-04-01 17:15:13

Release updates:

Improvement to existing documentation.

New APIs:

- [GetFunctionEventInvokeConfig](#)
- [UpdateFunctionEventInvokeConfig](#)

New data structures:

- [AsyncTriggerConfig](#)
- [RetryConfig](#)

Release 8

Release time: 2021-03-25 11:05:19

Release updates:

Improvement to existing documentation.

New APIs:

- [GetAccount](#)

New data structures:

- [LimitsInfo](#)
- [NamespaceLimit](#)
- [NamespaceUsage](#)
- [TriggerCount](#)
- [UsageInfo](#)

Release 7

Release time: 2021-03-02 17:29:26

Release updates:

Improvement to existing documentation.

New APIs:

- [ListAsyncEvents](#)
- [TerminateAsyncEvent](#)

New data structures:

- [AsyncEvent](#)
- [TimeInterval](#)

Release 6

Release time: 2021-01-05 14:26:01

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteProvisionedConcurrencyConfig](#)
- [DeleteReservedConcurrencyConfig](#)
- [GetProvisionedConcurrencyConfig](#)
- [GetReservedConcurrencyConfig](#)

- [PutProvisionedConcurrencyConfig](#)
- [PutReservedConcurrencyConfig](#)
- [PutTotalConcurrencyConfig](#)

New data structures:

- [VersionProvisionedConcurrencyInfo](#)

Modified data structures:

- [Trigger](#)
 - New members:Qualifier

Release 5

Release time: 2020-12-21 17:14:47

Release updates:

Improvement to existing documentation.

Modified data structures:

- [Function](#)
 - New members:StatusReasons, TotalProvisionedConcurrencyMem, ReservedConcurrencyMem
- [Trigger](#)
 - New members:ResourceId, BindStatus, TriggerAttribute
- [TriggerInfo](#)
 - New members:ResourceId, BindStatus, TriggerAttribute

Release 4

Release time: 2020-10-21 19:53:36

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateFunction](#)
 - New input parameters:Tags

- [CreateTrigger](#)
 - New input parameters:CustomArgument

Release 3

Release time: 2020-10-16 18:25:02

Release updates:

Improvement to existing documentation.

Modified APIs:

- GetFunction
 - New output parameters:StatusReasons

New data structures:

- [StatusReason](#)

Release 2

Release time: 2020-09-17 17:30:44

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateFunction
 - New input parameters:InitTimeout
- GetFunction
 - New output parameters:InitTimeout
- UpdateFunctionConfiguration
 - New input parameters:InitTimeout

Existing Release

Release time: 2020-07-30 20:09:12

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [CopyFunction](#)
- [CreateAlias](#)
- [CreateFunction](#)
- [CreateNamespace](#)
- [CreateTrigger](#)
- [DeleteAlias](#)
- [DeleteFunction](#)
- [DeleteLayerVersion](#)
- [DeleteNamespace](#)
- [DeleteTrigger](#)
- [GetAlias](#)
- [GetFunction](#)
- [GetFunctionAddress](#)
- [GetFunctionLogs](#)
- [GetLayerVersion](#)
- [Invoke](#)
- [ListAliases](#)
- [ListFunctions](#)
- [ListLayerVersions](#)
- [ListLayers](#)
- [ListNamespaces](#)
- [ListTriggers](#)
- [ListVersionByFunction](#)
- [PublishLayerVersion](#)
- [PublishVersion](#)
- [UpdateAlias](#)
- [UpdateFunctionCode](#)
- [UpdateFunctionConfiguration](#)
- [UpdateNamespace](#)

Existing data structures:

- [AccessInfo](#)
- [Alias](#)
- [CfsConfig](#)
- [CfsInsInfo](#)

- [Code](#)
- DeadLetterConfig
- EipConfigIn
- EipConfigOut
- EipOutConfig
- Environment
- [Filter](#)
- [Function](#)
- [FunctionLog](#)
- [FunctionVersion](#)
- [LayerVersionInfo](#)
- LayerVersionSimple
- [LogFilter](#)
- [LogSearchContext](#)
- [Namespace](#)
- PublicNetConfigIn
- PublicNetConfigOut
- [Result](#)
- [RoutingConfig](#)
- [Tag](#)
- [Trigger](#)
- [TriggerInfo](#)
- Variable
- [VersionMatch](#)
- [VersionWeight](#)
- VpcConfig

Introduction

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SCF is an FaaS (Function as a Service) service that hosts and runs your code with user-configured triggers. With SCF, you can define triggers and SCF will run your code in response to events you defined.

SCF provides a serverless execution environment, with which you can your code without purchasing and managing servers. You only need to write your core with the platform-supported languages, configure the required conditions. SCF will executes your code and scales automatically on Tencent Cloud infrastructures.

Note:

- All APIs in this section are version 3.0. New SCF APIs added in the future will also be version 3.0. We strongly recommend you use 3.0 APIs.

Glossary

Term	Description
SCF	Serverless Cloud Function (SCF) is an FaaS (Function as a Service) service that hosts and runs your code with user-configured triggers. With SCF, you can define triggers and SCF will run your code in response to events you defined.
Trigger	SCF functions are triggered by events. Event sources serve as the triggers, which are usually resource objects of other products such as a COS bucket, a CMQ topic or a timer.

API Category

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Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
GetAccount	Gets account information	20

Trigger APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateTrigger	Creates a function trigger	100
DeleteTrigger	Deletes a trigger	100
UpdateTriggerStatus	Updates the trigger tatus	20
ListTriggers	Gets function trigger list	20

Function APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateAlias	Creates alias for function version	20
DeleteAlias	Deletes alias	20
DeleteFunction	Deletes a function	100
DeleteProvisionedConcurrencyConfig	Deletes provisioned concurrency	20
DeleteReservedConcurrencyConfig	Removes the reserved quota of a function	20
GetAlias	Gets alias details	20

GetFunctionAddress	Obtains download address of the function code	20
GetFunctionEventInvokeConfig	Gets the async retry configuration of function	20
GetProvisionedConcurrencyConfig	Gets the provisioned concurrency details of function	20
GetRequestStatus	Queries the status of a single function request.	20
GetReservedConcurrencyConfig	Obtains the reserved quota details of a function	20
InvokeFunction	Invokes functions synchronously	10000
ListAliases	Gets alias list	20
ListFunctions	Obtains a function list	100
ListVersionByFunction	Queries a function version	20
PublishVersion	Releases a new version	20
PutProvisionedConcurrencyConfig	Sets provisioned concurrency	20
PutReservedConcurrencyConfig	Configures the reserved quota	20
PutTotalConcurrencyConfig	Modifies account concurrency quota	20
UpdateAlias	Updates alias configuration	20
UpdateFunctionCode	Updates the function code	100
UpdateFunctionEventInvokeConfig	Updates the async retry configuration of function	20
GetFunctionLogs	Obtains a function running log	5
Invoke	Runs a function	100
CopyFunction	Replicates a function	20

Namespace APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteNamespace	Deletes a namespace	20
UpdateNamespace	Updates a namespace	20
CreateNamespace	Creates a namespace	20
ListNamespaces	Displays a namespace list	20

Layer Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteLayerVersion	Deletes layer version	20
GetLayerVersion	Gets layer version details	20
ListLayerVersions	Gets layer version list	20
ListLayers	Returns layer list	20
PublishLayerVersion	Publishes layer version	20

Async Event Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ListAsyncEvents	Pulls async function event list	20
TerminateAsyncEvent	Terminates async function event	20
GetAsyncEventStatus	Gets the async event status of a function	20

Making API Requests

Request Structure

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1. Service Address

The API supports access from either a nearby region (at `scf.tencentcloudapi.com`) or a specified region (at `scf.ap-guangzhou.tencentcloudapi.com` for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "`scf.ap-guangzhou.tencentcloudapi.com`".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	<code>scf.tencentcloudapi.com</code>
South China (Guangzhou)	<code>scf.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>scf.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>scf.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>scf.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>scf.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>scf.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>scf.ap-singapore.tencentcloudapi.com</code>
Southeast Asia (Bangkok)	<code>scf.ap-bangkok.tencentcloudapi.com</code>

Hosted region	Domain name
South Asia (Mumbai)	scf.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	scf.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	scf.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	scf.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	scf.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	scf.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	scf.eu-frankfurt.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request/Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is the UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/
```

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

```
Content-Type: multipart/form-data; boundary=58731222010402
```

```
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
```

```
X-TC-Version: 2017-03-12
```

```
X-TC-Timestamp: 1527672334
```

```
X-TC-Region: ap-guangzhou
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Offset"
```

```
0
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Limit"
```

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbbe224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

```
Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/
```

```
Host: cvm.tencentcloudapi.com
```

```
Content-Type: application/x-www-form-urlencoded
```

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
Southeast Asia Pacific (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest China (Chengdu)	ap-chengdu
Southwest China (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
Hong Kong/Macao/Taiwan (Hong Kong, China)	ap-hongkong
South Asia Pacific (Mumbai)	ap-mumbai
East China (Nanjing)	ap-nanjing
Northeast Asia Pacific (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi
Southeast Asia Pacific (Singapore)	ap-singapore
Northeast Asia Pacific (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt

Eastern U.S. (Virginia)	na-ashburn
Western U.S. (Silicon Valley)	na-siliconvalley
North America (Toronto)	na-toronto
South America (Saopaulo)	sa-saopaulo

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) console page.
3. On the [TencentCloud API Key](#) page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including [Python](#), [Java](#), [PHP](#), [Go](#), [NodeJS](#) and [.NET](#). In addition, it provides [API Explorer](#) which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****` and `Gu5t9xGARNpq86cd98joQYCN3*****`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

```
CanonicalQueryString + '\n' +  
CanonicalHeaders + '\n' +  
SignedHeaders + '\n' +  
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

```
[{"Values": ["unnamed"], "Name": "instance-name"}]]} in this example
```

The pseudocode for calculation is

Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is

```
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

POST

/

content-type:application/json; charset=utf-8

host:cvm.tencentcloudapi.com

content-type;host

99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =  
Algorithm + \n +  
RequestTimestamp + \n +  
CredentialScope + \n +  
HashedCanonicalRequest
```

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should be the domain name of the product called. The calculation result in this example is <code>2018-05-25/cvm/tc3_request</code> .

HashedCanonicalRequest

Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1) Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., <code>Gu5t9xGARNpq86cd98joQYCN3*****</code> .
Date	The Date field information in <code>Credential</code> , such as <code>2019-02-25</code> in this example.
Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.

2) Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =  
Algorithm + ' ' +  
'Credential=' + SecretId + '/' + CredentialScope + ', ' +  
'SignedHeaders=' + SignedHeaders + ', ' +  
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff</code> .

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/  
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff  
Content-Type: application/json; charset=utf-8  
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12`.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
    private final static Charset UTF8 = StandardCharsets.UTF_8;
    private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

    public static byte[] hmac256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(UTF8));
    }

    public static String sha256Hex(String s) throws Exception {
        MessageDigest md = MessageDigest.getInstance("SHA-256");
        byte[] d = md.digest(s.getBytes(UTF8));
        return DatatypeConverter.printHexBinary(d).toLowerCase();
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
        String region = "ap-guangzhou";
        String action = "DescribeInstances";
        String version = "2017-03-12";
        String algorithm = "TC3-HMAC-SHA256";
        String timestamp = "1551113065";
        //String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        // Pay attention to the time zone; otherwise, errors may occur
        sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
        String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

        // ***** Step 1: Concatenate the CanonicalRequest string *****
        String httpRequestMethod = "POST";
```

```
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Concatenate the string to sign *****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Calculate the signature *****
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\")")
```

```
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}
```

Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"]}]}

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +
```

```
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexdigest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)

# ***** Step 3: Calculate the Signature *****
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha256).hexdigest()
print(signature)

# ***** Step 4: Concatenate the Authorization *****
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '" '
+ ' -H "Content-Type: application/json; charset=utf-8" '
+ ' -H "Host: ' + host + '" '
+ ' -H "X-TC-Action: ' + action + '" '
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '" '
+ ' -H "X-TC-Version: ' + version + '" '
+ ' -H "X-TC-Region: ' + region + '" '
+ " -d '" + payload + "'")
```

Golang

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "fmt"
    "time"
)

func sha256hex(s string) string {
    b := sha256.Sum256([]byte(s))
    return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
    hashed := hmac.New(sha256.New, []byte(key))
    hashed.Write([]byte(s))
    return string(hashed.Sum(nil))
}

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

    // step 1: build canonical request string
    httpRequestMethod := "POST"
    canonicalURI := "/"
    canonicalQueryString := ""
    canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
        host + "\n"
    signedHeaders := "content-type;host"
    payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
    hashedRequestPayload := sha256hex(payload)
    canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
        httpRequestMethod,
        canonicalURI,
```

```
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date. "/" . $service. "/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm. "\n"
.$timestamp. "\n"
.$credentialScope. "\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3". $secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
```

```
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://".$host
.' -H "Authorization: '.$authorization.'"
.' -H "Content-Type: application/json; charset=utf-8"
.' -H "Host: '.$host.'"
.' -H "X-TC-Action: '.$action.'"
.' -H "X-TC-Timestamp: '.$timestamp.'"
.' -H "X-TC-Version: '.$version.'"
.' -H "X-TC-Region: '.$region.'"
." -d ".$payload."";
echo $curl.PHP_EOL;
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
```

```
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ***** Step 3: Calculate the Signature *****
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ***** Step 4: Concatenate the Authorization *****
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \
```

```
+ ' -H "Authorization: ' + authorization + "' \n\n+ ' -H "Content-Type: application/json; charset=utf-8"' \n\n+ ' -H "Host: ' + host + "' \n\n+ ' -H "X-TC-Action: ' + action + "' \n\n+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + "' \n\n+ ' -H "X-TC-Version: ' + version + "' \n\n+ ' -H "X-TC-Region: ' + region + "' \n\n+ " -d '" + payload + "'"
```

DotNet

```
using System;\nusing System.Collections.Generic;\nusing System.Security.Cryptography;\nusing System.Text;\n\npublic class Application\n{\n    public static string SHA256Hex(string s)\n    {\n        using (SHA256 algo = SHA256.Create())\n        {\n            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));\n            StringBuilder builder = new StringBuilder();\n            for (int i = 0; i < hashbytes.Length; ++i)\n            {\n                builder.Append(hashbytes[i].ToString("x2"));\n            }\n            return builder.ToString();\n        }\n    }\n\n    public static byte[] HmacSHA256(byte[] key, byte[] msg)\n    {\n        using (HMACSHA256 mac = new HMACSHA256(key))\n        {\n            return mac.ComputeHash(msg);\n        }\n    }\n\n    public static Dictionary<String, String> BuildHeaders(string secretid,\n        string secretkey, string service, string endpoint, string region,\n        string action, string version, DateTime date, string requestPayload)\n    {\n        string datestr = date.ToString("yyyy-MM-dd");\n        DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);\n        long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
```

```
dpointRounding.AwayFromZero) / 1000;
// ***** Step 1: Concatenate the CanonicalRequest string *****
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----");

// ***** Step 2: Concatenate the string to sign *****
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----");

// ***** Step 3: Calculate the signature *****
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----");

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
```

```
Console.WriteLine("-----");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    string service = "cvm";
    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a project, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u547d\\u540d\"], \"Name\": \"instance-name\"}]}";

    Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service, endpoint, region, action, version, date, requestPayload);

    Console.WriteLine("POST https://cvm.tencentcloudapi.com");
    foreach (KeyValuePair<string, string> kv in headers)
    {
        Console.WriteLine(kv.Key + ": " + kv.Value);
    }
    Console.WriteLine();
    Console.WriteLine(requestPayload);
}
```

NodeJS

```
const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
  const hmac = crypto.createHmac('sha256', secret)
  return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
  const hash = crypto.createHash('sha256')
  return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
  const date = new Date(timestamp * 1000)
  const year = date.getUTCFullYear()
  const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
  const day = ('0' + date.getUTCDate()).slice(-2)
  return `${year}-${month}-${day}`
}

function main() {

  const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
  const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

  const endpoint = "cvm.tencentcloudapi.com"
  const service = "cvm"
  const region = "ap-guangzhou"
  const action = "DescribeInstances"
  const version = "2017-03-12"
  //const timestamp = getTime()
  const timestamp = 1551113065
  const date = getDate(timestamp)

  // ***** Step 1: Concatenate the CanonicalRequest string *****
  const signedHeaders = "content-type;host"

  const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}"

  const hashedRequestPayload = getHash(payload);
  const httpRequestMethod = "POST"
  const canonicalUri = "/"
  const canonicalQueryString = ""
  const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + endpoint + "\n"

  const canonicalRequest = httpRequestMethod + "\n"
```

```
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("-----")

// ***** Step 2: Concatenate the string to sign *****
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("-----")

// ***** Step 3: Calculate the signature *****
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("-----")

// ***** Step 4: Concatenate the Authorization *****
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("-----")

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + '"'
console.log(Call_Information)
}
main()
```

C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
    SHA256_Init(&sha256);
    SHA256_Update(&sha256, str.c_str(), str.size());
    SHA256_Final(hash, &sha256);
    std::string NewString = "";
    for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
    {
        sprintf(buf, sizeof(buf), "%02x", hash[i]);
        NewString = NewString + buf;
    }
    return NewString;
}
```

```
}  
  
string HmacSha256(const string &key, const string &input)  
{  
    unsigned char hash[32];  
  
    HMAC_CTX *h;  
    #if OPENSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX hmac;  
    HMAC_CTX_init(&hmac);  
    h = &hmac;  
    #else  
    h = HMAC_CTX_new();  
    #endif  
  
    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);  
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());  
    unsigned int len = 32;  
    HMAC_Final(h, hash, &len);  
  
    #if OPENSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX_cleanup(h);  
    #else  
    HMAC_CTX_free(h);  
    #endif  
  
    std::stringstream ss;  
    ss << std::setfill('0');  
    for (int i = 0; i < len; i++)  
    {  
        ss << hash[i];  
    }  
  
    return (ss.str());  
}  
  
string HexEncode(const string &input)  
{  
    static const char* lut = "0123456789abcdef";  
    size_t len = input.length();  
  
    string output;  
    output.reserve(2 * len);  
    for (size_t i = 0; i < len; ++i)  
    {  
        const unsigned char c = input[i];  
        output.push_back(lut[c >> 4]);  
        output.push_back(lut[c & 15]);  
    }  
}
```

```
return output;
}

int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ***** Step 1: Concatenate the CanonicalRequest string *****
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----" << endl;

// ***** Step 2: Concatenate the string to sign *****
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
```

```
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: \" + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\"" + "\n"
+ " -H \"Host: \" + host + "\n"
+ " -H \"X-TC-Action: \" + action + "\n"
+ " -H \"X-TC-Timestamp: \" + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: \" + version + "\n"
+ " -H \"X-TC-Region: \" + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) page.
3. On the [API Key Management](#) page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
- SecretKey: Gu5t9xGARNpq86cd98joQYCN3*****

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'InstanceIds.0' : 'ins-09dx96dg',
  'Limit' : 20,
  'Nonce' : 11886,
  'Offset' : 0,
  'Region' : 'ap-guangzhou',
  'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****',
  'Timestamp' : 1465185768,
  'Version' : '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*****&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*****';  
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins  
-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5  
yKBZQpn74WFkmLPx3*****&Timestamp=1465185768&Version=2017-03-12';  
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));  
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%3D, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using [RFC 3986](#). Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12
```

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request URL.
        for (String k : params.keySet()) {
            // The request string needs to be URL encoded. As the Key is all in English letters, only the value is URL encoded here.
            url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
        }
    }
}
```

```
}
return url.toString().substring(0, url.length() - 1);
}
public static void main(String[] args) throws Exception {
    TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enables automatic sorting
    // A random number should be used when actually calling, for example: params.put("Nonce", new Random().nextInt(Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // Common parameter
    params.put("Action", "DescribeInstances"); // Common parameter
    params.put("Version", "2017-03-12"); // Common parameter
    params.put("Region", "ap-guangzhou"); // Common parameter
    params.put("Limit", 20); // Business parameter
    params.put("Offset", 0); // Business parameter
    params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
    params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}
```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "/"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)
```

```
if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action': 'DescribeInstances',
        'InstanceIds.0': 'ins-09dx96dg',
        'Limit': 20,
        'Nonce': 11886,
        'Offset': 0,
        'Region': 'ap-guangzhou',
        'SecretId': secret_id,
        'Timestamp': 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # An actual invocation would occur here, which may incur fees after success
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

Golang

```
package main
import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)
func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    params := map[string]string{
        "Nonce": "11886",
        "Timestamp": "1465185768",
        "Region": "ap-guangzhou",
        "SecretId": secretId,
        "Version": "2017-03-12",
        "Action": "DescribeInstances",
        "InstanceIds.0": "ins-09dx96dg",
        "Limit": "20",
        "Offset": "0",
    }
    var buf bytes.Buffer
```

```
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")
// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)
for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)
hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())
fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$params["Nonce"] = 11886; // rand();
$params["Timestamp"] = 1465185768; // time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;
ksort($params);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

```
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
  'Nonce' => 11886,
  'Offset' => 0,
  'Region' => 'ap-guangzhou',
  'SecretId' => secret_id,
  'Timestamp' => 1465185768, # Time.now.to_i
  'Version' => '2017-03-12',
}
sign = method + endpoint + '/*?'
params = []
data.sort.each do |item|
  params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sign))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

```
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;
public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}
public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');
function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){
```

```
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}

function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': 'sha1'};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params) {
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main() {
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```

```
console.log("-----")
const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("-----")
console.log(req_url)
}
main()
```

Responses

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Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- `RequestId` is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. `0` `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please ensure your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an `Error` field in the response, it means that the API call failed. The `Code` field in `Error` indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
<code>AuthFailure.InvalidSecretId</code>	Invalid key (not a TencentCloud API key type).
<code>AuthFailure.MFAFailure</code>	MFA failed.
<code>AuthFailure.SecretIdNotFound</code>	The key does not exist.
<code>AuthFailure.SignatureExpire</code>	Signature expired.
<code>AuthFailure.SignatureFailure</code>	Signature error.
<code>AuthFailure.TokenFailure</code>	Token error.
<code>AuthFailure.UnauthorizedOperation</code>	The request does not have CAM authorization.
<code>DryRunOperation</code>	DryRun Operation. It means that the request would have succeeded, but the <code>DryRun</code> parameter was used.
<code>FailedOperation</code>	Operation failed.
<code>InternalError</code>	Internal error.
<code>InvalidAction</code>	The API does not exist.
<code>InvalidParameter</code>	Incorrect parameter.
<code>InvalidParameterValue</code>	Invalid parameter value.
<code>LimitExceeded</code>	Quota limit exceeded.

Error Code	Description
MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Trigger APIs

CreateTrigger

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1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to create a trigger based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateTrigger.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the function bound to the new trigger
TriggerName	Yes	String	Name of a new trigger. For a timer trigger, the name can contain up to digits, dashes, and underscores; for a COS trigger, it should be an ac name of the corresponding COS bucket applicable to the XML API (e 5ff414-12345.cos.ap-shanghai.myqcloud.com); for other triggers, please refer to the descriptions of parameters bound to the specific trigger.
Type	Yes	String	Type of trigger. Values: <code>cos</code> , <code>cmq</code> , <code>timer</code> , <code>ckafka</code> and <code>cls</code> . To create a CLS trigger, please refer to Creating Shipping Task (SCF) .

Parameter Name	Required	Type	Description
TriggerDesc	No	String	For parameters of triggers, see Trigger Description
Namespace	No	String	Function namespace
Qualifier	No	String	Function version. It defaults to <code>\$LATEST</code> . It's recommended to use <code>[\$DEFAULT]</code> (https://intl.cloud.tencent.com/document/product/5from_cn_redirect=1#.E9.BB.98.E8.AE.A4.E5.88.AB.E5. for canary release.
Enable	No	String	Initial enabling status of the trigger. <code>OPEN</code> indicates enabled, and indicates disabled.
CustomArgument	No	String	Custom argument, supporting only the timer trigger.
Description	No	String	Trigger description

3. Output Parameters

Parameter Name	Type	Description
TriggerInfo	Trigger	Trigger information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a trigger

This example shows you how to use this function to create a trigger.

Input Example

```
https://scf.tencentcloudapi.com/?Action=CreateTrigger
&FunctionName=<FunctionName>
&TriggerName=<TriggerName>
&Type=timer
```

```
&TriggerDesc=*/2****  
&<Common request parameters>
```

Output Example

```
{  
  "Response": {  
    "TriggerInfo": {  
      "AddTime": "6/9/2021 4:07:18 PM",  
      "AvailableStatus": "Available",  
      "BindStatus": "on",  
      "CustomArgument": "",  
      "Description": "",  
      "Enable": 0,  
      "ModTime": "8/31/2021 9:45:32 PM",  
      "Qualifier": "$DEFAULT",  
      "ResourceId": "XXX",  
      "TriggerAttribute": "single",  
      "TriggerDesc": "{\"cron\":\"0 */2 * * * *\"}",  
      "TriggerName": "TriggerName",  
      "Type": "timer"  
    },  
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"  
  }  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ApiGateway	Failed to create the API gateway trigger.
FailedOperation.Apigw	Failed to create the trigger.
FailedOperation.Cos	Failed to operate on the COS resources.
FailedOperation.CreateTrigger	This operation is not supported in the current function state.
InternalError.ApiGateway	Internal errors occurred during the creation of the apigw trigger.
InternalError.Ckafka	ckafka API failure.
InternalError.Cmq	Failed to delete the cmq trigger.
InternalError.Cos	Failed to update the trigger.
InternalError.System	Internal system error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.ApiGateway	ApiGateway parameter error.
InvalidParameterValue.Cdn	Cdn error.
InvalidParameterValue.Ckafka	Ckafka error.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.CosNotifyRuleConflict	COS notification rule conflict
InvalidParameterValue.CustomArgument	CustomArgument exceeds the length limit.
InvalidParameterValue.Enable	The value of <code>Enable</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFNBW .

Error Code	Description
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.SecretInfo	SecretInfo error
InvalidParameterValue.ServiceName	Invalid ServiceName.
InvalidParameterValue.TriggerDesc	TriggerDesc error.
InvalidParameterValue.TriggerName	TriggerName error.
InvalidParameterValue.Type	Type error.
InvalidParameterValue.ZipFile	A non-standard zip file was detected. Please recompress and try again.
LimitExceeded.Cdn	The Cdn usage exceeds the upper limit.
LimitExceeded.FunctionOnTopic	The number of functions under the same topic exceeds the upper limit.
LimitExceeded.Trigger	If the number of triggers exceeds the upper limit, you can apply for an increase by submitting a ticket .
ResourceInUse	The resource is in use.
ResourceInUse.Cdn	Cdn is in use.
ResourceInUse.Cmq	Cmq is in use.
ResourceInUse.Cos	Cos is in use.
ResourceInUse.Trigger	This TriggerName already exists.
ResourceInUse.TriggerName	This TriggerName already exists.
ResourceInsufficient.COS	Insufficient COS resources.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Cdn	Cdn does not exist.
ResourceNotFound.Ckafka	Ckafka does not exist.
ResourceNotFound.Cmq	Cmq does not exist.
ResourceNotFound.Cos	Cos does not exist.

Error Code	Description
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Qualifier	The version does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.CreateTrigger	You do not have permissions.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.Cdn	Cdn is not supported.
UnsupportedOperation.Cos	Cos operation is not supported.
UnsupportedOperation.Trigger	Trigger operation is not supported.

DeleteTrigger

最近更新时间：2023-05-05 10:16:39

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete an existing trigger based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteTrigger.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
TriggerName	Yes	String	Name of the trigger to be deleted
Type	Yes	String	Type of the trigger to be deleted. Currently, COS, CMQ, timer, and ckafk are supported.
Namespace	No	String	Function namespace
TriggerDesc	No	String	This field is required if a COS trigger is to be deleted. It stores the data {"event": "cos:ObjectCreated:*"} in the JSON format. The data content of

			is in the same format as that of SetTrigger. This field is optional if a scheduler trigger or CMQ trigger is to be deleted.
Qualifier	No	String	Function version. It defaults to <code>\$LATEST</code> . It's recommended to use <code>[\$DEFAULT]</code> (https://intl.cloud.tencent.com/document/product/583 <code>from_cn_redirect=1#.E9.BB.98.E8.AE.A4.E5.88.AB.E5.90</code> for canary release.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a trigger

This example shows you how to delete a trigger.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteTrigger
<Common request parameters>

{
  "Type": "timer",
  "FunctionName": "ledDummyAPITest",
  "TriggerName": "test3"
}
```

Output Example

```
{
  "Response": {
```

```
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CreateTrigger	This operation is not supported in the current function state.
FailedOperation.DeleteTrigger	Failed to delete the trigger.
InternalError	Internal error.
InternalError.System	Internal system error.
InvalidParameterValue	Incorrect parameter value.

InvalidParameterValue.ApiGateway	ApiGateway parameter error.
InvalidParameterValue.Cdn	Cdn error.
InvalidParameterValue.Cmq	Cmq error.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.TriggerDesc	TriggerDesc error.
InvalidParameterValue.TriggerName	TriggerName error.
InvalidParameterValue.Type	Type error.
ResourceInUse.Cdn	Cdn is in use.
ResourceInUse.Cmq	Cmq is in use.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Cdn	Cdn does not exist.
ResourceNotFound.Cmq	Cmq does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Timer	Timer does not exist.
ResourceNotFound.Trigger	The trigger does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.DeleteTrigger	You do not have permissions.
UnsupportedOperation.Cdn	Cdn is not supported.

UpdateTriggerStatus

最近更新时间：2023-07-18 11:10:58

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update the trigger status.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateTriggerStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Enable	Yes	String	Initial status of the trigger. Values: <code>OPEN</code> (enabled); <code>CLOSE</code> disabled
FunctionName	Yes	String	Function name.
TriggerName	Yes	String	Trigger name
Type	Yes	String	Trigger Type
Qualifier	No	String	Function version. It defaults to <code>\$LATEST</code> . It's recommended to use <code>[\$DEFAULT]</code> (https://intl.cloud.tencent.com/document/product/583)

			from_cn_redirect=1#.E9.BB.98.E8.AE.A4.E5.88.AB.E5.90 for canary release.
Namespace	No	String	Function namespace
TriggerDesc	No	String	To update a COS trigger, this field is required. It stores the data {"event": "cos:ObjectCreated:*"} in the JSON format. The data content of is in the same format as that of SetTrigger. This field is optional if a sche trigger or CMQ trigger is to be deleted.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying trigger status

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpdateTriggerStatus
<Common request parameters>

{
  "Enable": "CLOSE",
  "Type": "timer",
  "FunctionName": "<FunctionName>",
  "TriggerName": "<TriggerName>"
}
```

Output Example

```
{
  "Response": {
```

```
"RequestId": "375d4028-2666-4cef-bcab-2331cb974fc3"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.Cos	Failed to operate on the COS resources.
FailedOperation.CreateTrigger	This operation is not supported in the current function state.
FailedOperation.UpdateStatus	Failed to update the status
FailedOperation.UpdateTriggerStatus	The new status is the same as the previous one.
InternalError.Cmq	Failed to delete the cmq trigger.

InternalError.Cos	Failed to update the trigger.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CosNotifyRuleConflict	COS notification rule conflict
InvalidParameterValue.Enable	The value of <code>Enable</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.TriggerDesc	TriggerDesc error.
InvalidParameterValue.TriggerName	TriggerName error.
InvalidParameterValue.Type	Type error.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Qualifier	The version does not exist.
ResourceNotFound.Trigger	The trigger does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.UpdateTriggerStatus	You are not authorized for the operation.

ListTriggers

最近更新时间：2023-07-18 11:10:58

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the function trigger list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListTriggers.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Namespace	No	String	Namespace. Default value: default
Offset	No	Integer	Data offset. Default value: 0
Limit	No	Integer	Number of results to be returned. Default value: 20
OrderBy	No	String	Indicates by which field to sort the returned results. Valid values: add_time, mod_time. Default value: mod_time
Order	No	String	Indicates whether the returned results are sorted in ascending or

			descending order. Valid values: ASC, DESC. Default value: DESC
Filters.N	No	Array of Filter	* Qualifier: Version/Alias of trigger function *TriggerName: Name of the trigger *Description: Function trigger description

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of triggers
Triggers	Array of TriggerInfo	Trigger list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the list of function triggers

This example shows you how to get the list of function triggers.

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListTriggers
&FunctionName=aaa
&Limit=2
&Order=ASC
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Triggers": [
      {
        "Enable": 1,
        "Qualifier": "abc",
```

```
"TriggerName": "abc",
"Type": "abc",
"TriggerDesc": "abc",
"AvailableStatus": "abc",
"CustomArgument": "abc",
"Description": "abc",
"AddTime": "9/22/2020 12:00:00 AM",
"ModTime": "2020-09-22 00:00:00",
"ResourceId": "abc",
"BindStatus": "abc",
"TriggerAttribute": "abc"
}
],
"RequestId": "abc"
}
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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Error Code	Description
FailedOperation.Apigw	Failed to create the trigger.
InvalidParameterValue.Filters	Filters parameter error.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	The value of <code>OrderBy</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.Orderby	Orderby error.

Function APIs

Invoke

最近更新时间：2023-07-18 11:11:03

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to run a function.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: Invoke.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product. This API only supports: ap-bangkok, ap-beijing, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-mumbai, ap-seoul, ap-shanghai, ap-shanghai-fsi, ap-shenzhen-fsi, ap-singapore, ap-tokyo, eu-frankfurt, na-ashburn, na-siliconvalley, na-toronto, sa-saopaulo.
FunctionName	Yes	String	Function name
InvocationType	No	String	Fill in <code>RequestResponse</code> for synchronized invocations (default and recommended) and <code>Event</code> for asynchronized invocations.

			Note that for synchronized invocations, the max timeout period is 300s. Choose asynchronous invocations if the required timeout period is longer than 300 seconds. You can also use InvokeFunction for synchronized invocations.
Qualifier	No	String	The version or alias of the triggered function. It defaults to \$LATEST
ClientContext	No	String	Function running parameter, which is in the JSON format. The maximum parameter size is 6 MB for synchronized invocations and 128KB for asynchronous invocations. This field corresponds to event input parameter .
LogType	No	String	Null for async invocations
Namespace	No	String	Namespace
RoutingKey	No	String	Traffic routing config in json format, e.g., {"k":"v"}. Please note that both "k" and "v" must be strings. Up to 1024 bytes allowed.

3. Output Parameters

Parameter Name	Type	Description
Result	Result	Function execution result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Running function

Input Example

```
https://scf.tencentcloudapi.com/?Action=Invoke
&FunctionName=xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "MemUsage": 3207168,
      "Log": "",
      "RetMsg": "hello from scf",
      "BillDuration": 100,
      "FunctionRequestId": "6add56fa-58f1-11e8-89a9-5254005d5fdb",
      "Duration": 0.826,
      "ErrMsg": "",
      "InvokeResult": 0
    },
    "RequestId": "c2af8a64-c922-4d55-aee0-bd86a5c2cd12"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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Error Code	Description
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.InvokeFunction	Failed to invoke the function.
InternalError	Internal error.
InternalError.System	Internal system error.
InvalidParameter.FunctionName	The value of <code>FunctionName</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFbBW .
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Param	The input parameter is not in the standard JSON format.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceUnavailable.InsufficientBalance	Your balance is insufficient. Please top up first.
UnauthorizedOperation.CAM	CAM authentication failed.

UpdateFunctionConfiguration

最近更新时间：2022-02-16 11:28:19

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update the function configuration based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: UpdateFunctionConfiguration.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-16.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Name of the function to be modified
Description	No	String	Function description. It can contain up to 1,000 characters, including letters, digits, spaces, commas (,), periods (.), and Chinese characters.

MemorySize	No	Integer	Memory size available for function during execution. Default value: 128 MB. Value range: 64 or 128-3,072 MB in increments of 128 MB.
Timeout	No	Integer	Maximum execution duration of function in seconds. Value range: 1-900 seconds. Default value: 3 seconds
Runtime	No	String	Function runtime environment. Valid values: Python2.7, Python3.6, Nodejs6.10, Nodejs8.9, Nodejs10.15, Nodejs12.16, PHP5, PHP7, Go1, Java8, CustomRuntime
Environment	No	Environment	Function environment variable
Namespace	No	String	Function namespace
VpcConfig	No	VpcConfig	Function VPC configuration
Role	No	String	Role bound to the function
InstallDependency	No	String	Specifies whether to install dependency online . <code>TRUE</code> : yes. Default to <code>FALSE</code> . It is only available for Node.js functions.
ClsLogsetId	No	String	CLS logset ID to which logs are shipped
ClsTopicId	No	String	CLS Topic ID to which logs are shipped
Publish	No	String	It specifies whether to synchronously publish a new version during the update. The default value is <code>FALSE</code> , indicating not to publish a new version
L5Enable	No	String	Whether to enable L5 access. TRUE: enable; FALSE: not enable
Layers.N	No	Array of LayerVersionSimple	List of layer versions that bound with the function. Files with the same name will be overridden by the bound layer versions according to the ascending order in the list.
DeadLetterConfig	No	DeadLetterConfig	Information of a dead letter queue associated with a function
PublicNetConfig	No	PublicNetConfigIn	Public network access configuration
CfsConfig	No	CfsConfig	File system configuration input parameter, which is used for the function to bind the CFS file system

InitTimeout	No	Integer	The function initialization timeout period
ProtocolParams	No	ProtocolParams	Parameters of the specified protocol

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating function configuration

Input Example

```
https://scf.tencentcloudapi.com/?Action=UpdateFunctionConfiguration
&FunctionName=<FunctionName>
&Description=<Description>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ApmConfigInstanceId	Failed to obtain Apm InstanceId
FailedOperation.DebugModeUpdateTimeOutFail	Execution timeout period cannot be updated in debug mode.
FailedOperation.QcsRoleNotFound	The role does not exist.
FailedOperation.ReservedInProgress	The function already has a reserved concurrency setting task in progress. Please try again later.
FailedOperation.UpdateFunctionConfiguration	The <code>UpdateFunctionConfiguration</code> operation failed.
InternalError.System	Internal system error.
InternalError.SystemError	Internal service error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.ApmConfig	ApmConfig input error
InvalidParameterValue.ApmConfigInstanceId	ApmConfigInstanceId input error

InvalidParameterValue.ApmConfigRegion	ApmConfigRegion input error
InvalidParameterValue.CfsParameterDuplicate	The <code>cfs</code> configuration item already exists.
InvalidParameterValue.CfsParameterError	The value of <code>cfs</code> configuration item does not meet the specification.
InvalidParameterValue.Cls	Cls error.
InvalidParameterValue.ClsRole	To modify CLS configuration, Role parameter is required. Please check and try again.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.DnsInfo	The configuration of the environment variable DNS[OS_NAMESERVER] is incorrect.
InvalidParameterValue.EipConfig	EipConfig parameter error.
InvalidParameterValue.Environment	Environment error.
InvalidParameterValue.EnvironmentExceededLimit	The size of the environment variable exceeds the limit. Please keep it within 4 KB.
InvalidParameterValue.EnvironmentSystemProtect	You cannot modify the function's system environment variables or runtime environment variables.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Handler	Handler error.
InvalidParameterValue.IdleTimeOut	IdleTimeOut input parameter error
InvalidParameterValue.Layers	Layers parameter error.
InvalidParameterValue.LimitExceeded	The parameter exceeds the length limit.
InvalidParameterValue.Memory	The value of <code>Memory</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.MemorySize	MemorySize error.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.NodeSpec	NodeSpec parameter error
InvalidParameterValue.NodeType	NodeType parameter error

InvalidParameterValue.PublicNetConfig	The <code>PublicNetConfig</code> parameter is invalid.
InvalidParameterValue.Runtime	Runtime error.
InvalidParameterValue.SystemEnvironment	The system environment variable is invalid.
InvalidParameterValue.TraceEnable	The value of <code>TraceEnable</code> is invalid. Please modify and try again.
InvalidParameterValue.WebSocketsParams	WebSocketsParams input parameter error
LimitExceeded.Eip	The EIP resource exceeded the limit.
LimitExceeded.InitTimeout	The value of <code>InitTimeout</code> has reached the upper limit. You can submit a ticket to increase it at https://tencentcs.com/7Fixwt63 .
LimitExceeded.Memory	The memory exceeds the upper limit.
LimitExceeded.Timeout	Timeout exceeds the upper limit.
ResourceNotFound.CfsVpcNotMatch	VPCs of the CFS instance and the SCF function are different.
ResourceNotFound.Cmq	Cmq does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.GetCfsMountInsError	An error occurred while getting the CFS mount target information.
ResourceNotFound.GetCfsNotMatch	An error occurred while getting the CFS information.
ResourceNotFound.Layer	The layer does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Role	The role does not exist.
ResourceNotFound.Vpc	The VPC or subnet does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.EipFixed	The specified EipFixed does not exist.

UnsupportedOperation.VpcConfig	The specified VpcConfig does not exist.
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UpdateFunctionCode

最近更新时间：2023-07-18 11:11:00

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update the function code based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateFunctionCode.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Name of the function to be modified
Handler	No	String	Function handler name, which is in the <code>file name.function name</code> form. Use a period (.) to separate a file name and function name. The file name and function name must start and end with letters and contain 2-60 characters, including letters, digits, underscores (_), and hyphens (-).
CosBucketName	No	String	COS bucket name
CosObjectName	No	String	COS object path

ZipFile	No	String	It contains a function code file and its dependencies in the ZIP format. When you use this API, the ZIP file needs to be encoded with Base64. Up to 20 MB is supported.
Namespace	No	String	Function namespace
CosBucketRegion	No	String	COS region. Note: Beijing includes ap-beijing and ap-beijing-1.
InstallDependency	No	String	Whether to install dependencies automatically
EnvId	No	String	Function environment
Publish	No	String	It specifies whether to synchronously release a new version during the update. The default value is <code>FALSE</code> , indicating not to release a new version.
Code	No	Code	Function code
CodeSource	No	String	Code source. Valid values: ZipFile, Cos, Inline

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating the function code

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpdateFunctionCode
<Common request parameters>

{
  "CosObjectName": "<CosObjectName>",
```

```
"Handler": "index.main",
"CosBucketName": "<CosBucketName>",
"FunctionName": "test"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

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- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.

FailedOperation.CallRoleFailed	Failed to query the role information.
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.OperationConflict	Operation conflict.
FailedOperation.UpdateFunctionCode	You cannot update code in the current function state. Please try again when the state is normal.
InternalServerError.System	Internal system error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Args	The value of Args is incorrect.
InvalidParameterValue.Code	Code error.
InvalidParameterValue.CodeSecret	CodeSecret error.
InvalidParameterValue.CodeSource	CodeSource error.
InvalidParameterValue.Command	The value of Command[Entrypoint] is incorrect.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.CosBucketName	Invalid CosBucketName.
InvalidParameterValue.CosBucketRegion	The value of CosBucketRegion is invalid. Please modify and try again. See: https://tencentcs.com/5jXKFNBW
InvalidParameterValue.CosObjectName	Invalid CosObjectName.
InvalidParameterValue.Demo	The code parameter of the function template corresponding with the DemoID is error.
InvalidParameterValue.Demold	The Demold does not exist.
InvalidParameterValue.DnsInfo	The configuration of the environment variable DNS[OS_NAMESERVER] is incorrect.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.GitBranch	The format of GitBranch is incorrect.
InvalidParameterValue.GitDirectory	The format of GitDirectory is incorrect.
InvalidParameterValue.GitPassword	The format of GitPassword is incorrect.

InvalidParameterValue.GitUrl	The format of GitUrl is incorrect.
InvalidParameterValue.GitUserName	The format of GitUserName is incorrect.
InvalidParameterValue.Handler	Handler error.
InvalidParameterValue.ImageType	ImageType error
InvalidParameterValue.ImageUri	The input of imageUri is incorrect.
InvalidParameterValue.InlineZipFile	Invalid InlineZipFile.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.RegistryId	The value Enterprise Edition image ID [RegistryId] is incorrect.
InvalidParameterValue.TempCosObjectName	Invalid TempCosObjectName.
InvalidParameterValue.ZipFile	A non-standard zip file was detected. Please recompress and try again.
InvalidParameterValue.ZipFileBase64BinasciiError	Failed to Base64-decode the compressed file: Incorrect padding . Please fix it and try again.
LimitExceeded.ContainerImageAccelerateQuota	Reached the upper limit of function versions enabling image acceleration
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.ImageConfig	Failed to find the specified ImageConfig . Please create it first.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.TempCosAppid	The Appid of TempCos is not consistent with the APPID of the request account.
UnauthorizedOperation.UpdateFunctionCode	Operation failed.
UnsupportedOperation	Unsupported operation.

ListFunctions

最近更新时间：2023-05-05 10:16:45

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to return relevant function information based on the input query parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListFunctions.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Order	No	String	It specifies whether to return the results in ascending or descending order. The value is <code>ASC</code> or <code>DESC</code> .
Orderby	No	String	It specifies the sorting order of the results according to a specified field, such as <code>AddTime</code> , <code>ModTime</code> , and <code>FunctionName</code> .
Offset	No	Integer	Data offset. The default value is <code>0</code> .
Limit	No	Integer	Return data length. The default value is <code>20</code> .
SearchKey	No	String	It specifies whether to support fuzzy matching for the function name.

Namespace	No	String	Namespace
Description	No	String	Function description. Fuzzy search is supported.
Filters.N	No	Array of Filter	Filters - tag:tag-key - String - Required: No - Filtering criteria based on tag-key - value pairs. Replace <code>tag-key</code> with a specific tag-key. The maximum number of <code>Filters</code> for each request is 10, and that of <code>Filter.Values</code> is 5.

3. Output Parameters

Parameter Name	Type	Description
Functions	Array of Function	Function list
TotalCount	Integer	Total number
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the list of functions

This example shows you how to query functions whose status tag is `dev` and owner tag is `me` .

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListFunctions
&Limit=2
&Order=ASC
&<Common request parameters>
```

Output Example

```
{
  "Response": {
```

```
"TotalCount": 1,
"Functions": [
{
  "ModTime": "xx",
  "Status": "xx",
  "StatusDesc": "xx",
  "FunctionName": "xx",
  "TotalProvisionedConcurrencyMem": 1,
  "Tags": [
    {
      "Value": "xx",
      "Key": "xx"
    }
  ],
  "AddTime": "xx",
  "Namespace": "xx",
  "StatusReasons": [
    {
      "ErrorCode": "xx",
      "ErrorMessage": "xx"
    }
  ],
  "Runtime": "xx",
  "Type": "xx",
  "FunctionId": "xx",
  "ReservedConcurrencyMem": 1,
  "Description": "xx",
  "TraceEnable": "FALSE",
  "AsyncRunEnable": "FALSE"
}
],
"RequestId": "xx"
}
```

Example2 Querying functions associated with the specified tags

This example shows how to query functions with the tags of `status : dev` and `owner : me` .

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListFunctions
&Filters.0.Name=tag-status
&Filters.0.Values.0=dev
&Filters.1.Name=tag-owner
```

```
&Filters.1.Values.0=me
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Functions": [
      {
        "ModTime": "xx",
        "Status": "xx",
        "StatusDesc": "xx",
        "FunctionName": "xx",
        "TotalProvisionedConcurrencyMem": 1,
        "Tags": [
          {
            "Value": "xx",
            "Key": "xx"
          }
        ],
        "AddTime": "xx",
        "Namespace": "xx",
        "StatusReasons": [
          {
            "ErrorCode": "xx",
            "ErrorMessage": "xx"
          }
        ],
        "Runtime": "xx",
        "Type": "xx",
        "FunctionId": "xx",
        "ReservedConcurrencyMem": 1,
        "Description": "xx",
        "TraceEnable": "FALSE",
        "AsyncRunEnable": "FALSE"
      }
    ],
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.Exception	Internal service error
InternalError.System	Internal system error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Limit	Limit error.
InvalidParameterValue.LimitExceeded	The parameter exceeds the length limit.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Offset	Invalid offset.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	OrderBy error.

InvalidParameterValue.QueryVersion	Version parameter error
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.Region	Region error.

GetFunctionLogs

最近更新时间：2023-07-18 11:11:04

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API returns function running logs according to the specified conditions. Note that this API has been disused. You can use [GetRequestStatus](#) instead. See also [Retrieving Logs](#).

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetFunctionLogs.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FunctionName	No	String	Function name. - To ensure the compatibility of the GetFunctionLogs API, the input parameter <code>FunctionName</code> is optional, but we recommend you enter it; otherwise, log acquisition may fail. - After the function is connected to CLS, we recommend you use the related CLS API to get the best log retrieval experience.

Offset	No	Integer	Data offset. The addition of <code>Offset</code> and <code>Limit</code> cannot exceed 10,000.
Limit	No	Integer	Length of the return data. The addition of <code>Offset</code> and <code>Limit</code> cannot exceed 10,000.
Order	No	String	It specifies whether to sort the logs in an ascending or descending order. The value is <code>desc</code> or <code>asc</code> .
OrderBy	No	String	It specifies the sorting order of the logs based on a specified field, such as <code>function_name</code> , <code>duration</code> , <code>mem_usage</code> , and <code>start_time</code> .
Filter	No	LogFilter	Log filter used to identify whether to return logs of successful or failed requests. <code>filter.RetCode=not0</code> indicates that only the logs of failed requests will be returned. <code>filter.RetCode=is0</code> indicates that only the logs of successful requests will be returned. If this parameter is left blank, all logs will be returned.
Namespace	No	String	Function namespace
Qualifier	No	String	Function version
FunctionRequestId	No	String	RequestId corresponding to the executed function
StartTime	No	Timestamp	Query date, for example, 2017-05-16 20:00:00. The date must be within one day of the end time.
EndTime	No	Timestamp	Query date, for example, 2017-05-16 20:59:59. The date must be within one day of the start time.
SearchContext	No	LogSearchContext	This field is disused.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of function logs
Data	Array of	Function log information

	FunctionLog	
SearchContext	LogSearchContext	This field is disused.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the function execution logs

This example shows you how to obtain the function execution logs.

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetFunctionLogs
&FunctionName=<FunctionName>
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Data": [
      {
        "MemUsage": 3174400,
        "RetCode": 1,
        "RetMsg": "Success",
        "Log": "",
        "BillDuration": 100,
        "InvokeFinished": 1,
        "RequestId": "bc309eaa-6d64-11e8-a7fe-5254000b4175",
        "StartTime": "2018-06-11 18:46:45",
        "Duration": 0.532,
        "FunctionName": "APITest",
        "Level": "",
        "Source": "",
        "RetryNum": 1
      }
    ],
    "SearchContext": {
      "Offset": "",
      "Limit": 0,
    }
  }
}
```

```
"Keyword": "",
"Type": ""
},
"RequestId": "e2571ff3-da04-4c53-8438-f58bf057ce4a"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.AuthFailure	Login information verification failed and token verification failed.
FailedOperation.QueryError	
FailedOperation.TopicNotExist	This topic does not exist.
InternalError	Internal error.

InternalServerError.ES	ES error.
InternalServerError.Exception	Internal service error
InternalServerError.System	Internal system error.
InvalidParameter.Cls	Log parameter error
InvalidParameter.ParamError	Function creation parameter error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameter.RoleCheck	RoleCheck parameter error
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DateTime	DateTime error.
InvalidParameterValue.FunctionType	FunctionType error
InvalidParameterValue.ImageType	ImageType error
InvalidParameterValue.Offset	Invalid offset.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	The value of <code>OrderBy</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.RetCode	Invalid RetCode
InvalidParameterValue.StartTimeOrEndTime	You need to specify both the start time and the end time.
LimitExceeded.Offset	Offset exceeds the upper limit.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.RoleCheck	The role does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnsupportedOperation.NotSupportRegion	Unsupported region.

GetFunction

最近更新时间：2022-01-17 10:20:28

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to obtain function details, such as name, code, handler, associated trigger, and timeout.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: GetFunction.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-16.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Name of the function to obtain details
Qualifier	No	String	Function version number
Namespace	No	String	Function namespace
ShowCode	No	String	It indicates whether to display the code. <code>TRUE</code> means displaying

			the code, and <code>FALSE</code> means hiding the code. The code will not be displayed for entry files exceeding 1 MB.
--	--	--	--

3. Output Parameters

Parameter Name	Type	Description
ModTime	Timestamp	Latest modification time of the function
CodeInfo	String	Function code
Description	String	Function description
Triggers	Array of Trigger	Function trigger list
Handler	String	Function entry
CodeSize	Integer	Function code size
Timeout	Integer	Function timeout
FunctionVersion	String	Function version
MemorySize	Integer	Maximum available memory of the function
Runtime	String	Function running environment
FunctionName	String	Function name
VpcConfig	VpcConfig	Function VPC
UseGpu	String	Whether to use GPU
Environment	Environment	Function environment variable
CodeResult	String	Whether the code is correct
CodeError	String	Code error information
ErrNo	Integer	Error code
Namespace	String	Function namespace
Role	String	Role bound to the function
InstallDependency	String	Whether to install dependencies automatically

Status	String	Function status. For valid values and status change process, please see here
StatusDesc	String	Status description
ClsLogsetId	String	CLS logset to which logs are shipped
ClsTopicId	String	CLS Topic to which logs are shipped
FunctionId	String	Function ID
Tags	Array of Tag	Function tag list
EipConfig	EipOutConfig	EipConfig configuration
AccessInfo	AccessInfo	Domain name information
Type	String	Function type. The value is <code>HTTP</code> or <code>Event</code> .
L5Enable	String	Whether to enable L5
Layers	Array of LayerVersionInfo	Version information of a layer associated with a function
DeadLetterConfig	DeadLetterConfig	Information of a dead letter queue associated with a function
AddTime	Timestamp	Function creation time
PublicNetConfig	PublicNetConfigOut	Public network access configuration Note: This field may return null, indicating that no valid values can be obtained.
OnsEnable	String	Whether Ons is enabled Note: This field may return null, indicating that no valid value was found.
CfsConfig	CfsConfig	File system configuration parameter, which is used for the function to mount the file system Note: this field may return null, indicating that no valid values can be obtained.
AvailableStatus	String	Function billing status. For valid values, please see here Note: this field may return null, indicating that no valid values can be obtained.
Qualifier	String	Function version Note: this field may return null, indicating that no valid values can be obtained.

InitTimeout	Integer	Timeout period for function initialization
StatusReasons	Array of StatusReason	Cause of function failure Note: this field may return null, indicating that no valid values can be obtained.
AsyncRunEnable	String	Specifies whether to enable asynchronization Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TraceEnable	String	Specifies whether to enable event tracking Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ProtocolType	String	Protocols supported by HTTP-triggered functions. It supports WebSockets for now. Note: This field may return null, indicating that no valid value was found.
ProtocolParams	ProtocolParams	Parameters of the specified protocol Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining function details

This example shows you how to query the information a function. You can also specify the version and namespace if necessary.

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetFunction
&FunctionName=<FunctionName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ModTime": "2020-09-22 00:00:00",
```

```
"Layers": [
{
  "Status": "xx",
  "LayerVersion": 0,
  "Description": "xx",
  "LicenseInfo": "xx",
  "AddTime": "xx",
  "CompatibleRuntimes": [
    "xx"
  ],
  "LayerName": "xx"
},
{
  "CodeError": "xx",
  "AccessInfo": {
    "Host": "xx",
    "Vip": "xx"
  },
  "UseGpu": "xx",
  "EipConfig": {
    "EipFixed": "xx",
    "Eips": [
      "xx"
    ]
  },
  "Namespace": "xx",
  "Environment": {
    "Variables": [
      {
        "Value": "xx",
        "Key": "xx"
      }
    ]
  },
  "OnsEnable": "xx",
  "InstallDependency": "xx",
  "Role": "xx",
  "StatusReasons": [
    {
      "ErrorCode": "xx",
      "ErrorMessage": "xx"
    }
  ],
  "Description": "xx",
  "Type": "xx",
  "Status": "xx",
  "Runtime": "xx",
```

```
"DeadLetterConfig": {
  "FilterType": "xx",
  "Type": "xx",
  "Name": "xx"
},
"Qualifier": "xx",
"Tags": [
{
  "Value": "xx",
  "Key": "xx"
}
],
"ClsLogsetId": "xx",
"FunctionId": "xx",
"FunctionVersion": "xx",
"FunctionName": "xx",
"Triggers": [
{
  "ModTime": "2020-09-22 00:00:00",
  "BindStatus": "xx",
  "Enable": 0,
  "TriggerAttribute": "xx",
  "Qualifier": "xx",
  "CustomArgument": "xx",
  "AddTime": "2020-09-22 00:00:00",
  "AvailableStatus": "xx",
  "TriggerDesc": "xx",
  "TriggerName": "xx",
  "ResourceId": "xx",
  "Type": "xx"
}
],
"ClsTopicId": "xx",
"AddTime": "2020-09-22 00:00:00",
"MemorySize": 128,
"CfsConfig": {
  "CfsInsList": [
{
  "MountSubnetId": "xx",
  "LocalMountDir": "xx",
  "UserId": "xx",
  "IpAddress": "xx",
  "MountInsId": "xx",
  "MountVpcId": "xx",
  "UserGroupId": "xx",
  "CfsId": "xx",
  "RemoteMountDir": "xx"
}
```

```
}
]
},
"Timeout": 3,
"StatusDesc": "xx",
"TraceEnable": "xx",
"CodeInfo": "xx",
"AsyncRunEnable": "xx",
"VpcConfig": {
  "SubnetId": "xx",
  "VpcId": "xx"
},
"ErrNo": 0,
"CodeSize": 0,
"L5Enable": "xx",
"AvailableStatus": "xx",
"Handler": "xx",
"CodeResult": "xx",
"PublicNetConfig": {
  "EipConfig": {
    "EipAddress": [
      "xx"
    ],
    "EipStatus": "xx"
  },
  "PublicNetStatus": "xx"
},
"InitTimeout": 0,
"ProtocolType": "WS",
"ProtocolParams": {
  "WSParams": {
    "IdleTimeOut": 15
  }
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.Apigw	Failed to create the trigger.
InternalServerError	Internal error.
InternalServerError.Exception	Internal service error
InternalServerError.System	Internal system error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CodeSecret	CodeSecret error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Qualifier	Unsupported function version.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.

ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.CodeSecret	You do not have permissions to access the code.

DeleteFunction

最近更新时间：2023-05-05 10:16:48

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete a function based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteFunction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Name of the function to be deleted
Namespace	No	String	Function namespace
Qualifier	No	String	ID of the version to delete. All versions are deleted if it's left empty.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting function

This example shows you how to delete a function with the specified version and namespace.

Input Example

```
https://scf.tencentcloudapi.com/?Action=DeleteFunction
&FunctionName=<FunctionName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DeleteFunction	This operation cannot be performed in the current function status. Please try again when the function is in normal status.
FailedOperation.FunctionNameStatusError	You cannot update code in the current function state. Please try again when the state is normal.
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.ProvisionedInProgress	The function version already has a provisioned concurrency setting task in progress. Please try again later.
InternalError.Cmq	Failed to delete the cmq trigger.
InternalError.System	Internal system error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Qualifier	Unsupported function version.
ResourceNotFound	The resource does not exist.
ResourceNotFound.AttachedTagKeyNotFound	The tag key does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.

ResourceNotFound.Qualifier	The version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.DeleteFunction	Unauthorized operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AliasBind	The resource is bound to an alias, and the current operation cannot be performed. Please unbind the alias and try again.

CreateFunction

最近更新时间：2022-02-16 16:15:27

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to create a function based on the input parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateFunction.
Version	Yes	String	Common parameter. The value used for this API: 2018-04-16.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Name of the new function. The name can contain 2 to 60 characters, including English letters, digits, hyphens (-), and underscores (_). The name must start with a letter and cannot end with a hyphen or underscore.

Parameter Name	Required	Type	Description
Code	Yes	Code	Function code. Note: <code>COS</code> , <code>ZipFile</code> , and <code>DemoId</code> cannot be specified at the same time.
Handler	No	String	Function handler name. It supports the format of "file name.handler name" where the file name and handler name are separated with a "." (for Java, it is in the format of "package name.class name::handler name"). File and handler names can contain 2-60 letters, digits, underscores, and dashes and must start and end with letters
Description	No	String	Function description. It can contain up to 1,000 characters including letters, digits, spaces, commas (,), periods (.), and Chinese characters.
MemorySize	No	Integer	Memory size available for function during execution. Default value: 128 MB. Value range: 64 or 128-3072 MB in increments of 128 MB
Timeout	No	Integer	Maximum execution duration of function in seconds. Value range: 1-900 seconds. Default value: 3 seconds
Environment	No	Environment	Function environment variable
Runtime	No	String	Function runtime environment. Valid values: Python2.7, Python3.6, Nodejs6.10, Nodejs8.9, Nodejs10.15, Nodejs12.16, Php5, Php7, Go1, Java8, CustomRuntime. Default value: Python2.7
VpcConfig	No	VpcConfig	Function VPC configuration
Namespace	No	String	Function namespace
Role	No	String	Role bound to the function
InstallDependency	No	String	Specifies whether to install dependency online . <code>TRUE</code> : yes. Default to <code>FALSE</code> . It is only available for Node.js functions.
ClsLogsetId	No	String	CLS Logset ID to which the function logs are shipped
ClsTopicId	No	String	CLS Topic ID to which the function logs are shipped

Parameter Name	Required	Type	Description
Type	No	String	Function type. The default value is <code>Event</code> . Enter <code>Event</code> if you need to create a trigger function. Enter <code>HTTP</code> if you need to create an HTTP function service.
CodeSource	No	String	Code source. Valid values: ZipFile, Cos, Demo
Layers.N	No	Array of LayerVersionSimple	List of layer versions to be associate with the function. Layers will be overwritten sequentially in the order in the list.
DeadLetterConfig	No	DeadLetterConfig	Dead letter queue parameter
PublicNetConfig	No	PublicNetConfigIn	Public network access configuration
CfsConfig	No	CfsConfig	File system configuration parameter, which is used for the function to mount the file system
InitTimeout	No	Integer	The function initialization timeout period. It defaults to 65s for general cases and 90s for image deployment functions.
Tags.N	No	Array of Tag	Tag parameter of the function. It is an array of key-value pairs.
AsyncRunEnable	No	String	Whether to enable the async attribute. TRUE: yes; FALSE: no
TraceEnable	No	String	Whether to enable event tracking. TRUE: yes; FALSE: no
ProtocolType	No	String	Protocols supported by HTTP-triggered functions. Valid value: <code>WS</code> (WebSockets)
ProtocolParams	No	ProtocolParams	Parameters of the specified protocol

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating function

Input Example

```
https://scf.tencentcloudapi.com/?Action=CreateFunction
&FunctionName=<FunctionName>
&Handler=<function.handler>
&Code.CosBucketName=<CosBucketName>
&Code.CosObjectName=<CosObjectName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ApmConfigInstanceId	Failed to obtain Apm InstanceId
FailedOperation.CreateFunction	Operation failed.
FailedOperation.Namespace	The namespace already exists. Please do not create it again.
FailedOperation.OpenService	Failed to activate the service.
FailedOperation.QcsRoleNotFound	The role does not exist.
FailedOperation.TotalConcurrencyMemoryInProgress	The user already has a concurrency quota setting task in progress. Please try again later.
FailedOperation.UnOpenedService	The specified service has not been activated. Please submit a ticket for activation.
InternalError	Internal error.
InternalError.GetRoleError	Internal service error.
InternalError.System	Internal system error.
InternalError.SystemError	Internal service error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.

Error Code	Description
InvalidParameterValue.Action	The value of <code>Action</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.ApmConfig	ApmConfig input error
InvalidParameterValue.ApmConfigInstanceId	ApmConfigInstanceId input error
InvalidParameterValue.ApmConfigRegion	ApmConfigRegion input error
InvalidParameterValue.Args	The value of Args is incorrect.
InvalidParameterValue.CfsParameterDuplicate	The <code>cfs</code> configuration item already exists.
InvalidParameterValue.CfsParameterError	The value of <code>cfs</code> configuration item does not meet the specification.
InvalidParameterValue.CfsStructionError	Invalid CFS parameter format
InvalidParameterValue.Cls	Cls error.
InvalidParameterValue.Code	Code error.
InvalidParameterValue.CodeSecret	CodeSecret error.
InvalidParameterValue.CodeSource	CodeSource error.
InvalidParameterValue.Command	The value of Command[Entrypoint] is incorrect.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.CosBucketName	Invalid CosBucketName.
InvalidParameterValue.CosBucketRegion	The value of CosBucketRegion is invalid. Please modify and try again. See: https://tencentcs.com/5jXKFnBW
InvalidParameterValue.CosObjectName	Invalid CosObjectName.
InvalidParameterValue.DeadLetterConfig	The value of <code>DeadLetterConfig</code> is invalid. Please modify and try again. See https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.Description	Description error.

Error Code	Description
InvalidParameterValue.DnsInfo	The configuration of the environment variable DNS[OS_NAMESERVER] is incorrect.
InvalidParameterValue.EipConfig	EipConfig parameter error.
InvalidParameterValue.Environment	Environment error.
InvalidParameterValue.EnvironmentExceededLimit	The size of the environment variable exceeds the limit. Please keep it within 4 KB.
InvalidParameterValue.EnvironmentSystemProtect	You cannot modify the function's system environment variables or runtime environment variables.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.GitCommitId	The value of <code>GitCommitId</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.GitUrl	The format of GitUrl is incorrect.
InvalidParameterValue.Handler	Handler error.
InvalidParameterValue.IdleTimeOut	IdleTimeOut input parameter error
InvalidParameterValue.ImageUri	The input of imageUri is incorrect.
InvalidParameterValue.Layers	Layers parameter error.
InvalidParameterValue.LimitExceeded	The parameter exceeds the length limit.
InvalidParameterValue.Memory	The value of <code>Memory</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
InvalidParameterValue.MemorySize	MemorySize error.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.NodeSpec	NodeSpec parameter error
InvalidParameterValue.NodeType	NodeType parameter error
InvalidParameterValue.ProtocolType	ProtocolType input parameter error

Error Code	Description
InvalidParameterValue.PublicNetConfig	The <code>PublicNetConfig</code> parameter is invalid.
InvalidParameterValue.RegistryId	The value Enterprise Edition image ID [RegistryId] is incorrect.
InvalidParameterValue.Runtime	Runtime error.
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.
InvalidParameterValue.TempCosObjectName	Invalid TempCosObjectName.
InvalidParameterValue.TraceEnable	The value of <code>TraceEnable</code> is invalid. Please modify and try again.
InvalidParameterValue.Type	Type error.
InvalidParameterValue.VpcNotSetWhenOpenCfs	A VPC needs to be activated together with CFS configuration.
InvalidParameterValue.WebSocketsParams	WebSocketsParams input parameter error
InvalidParameterValue.ZipFile	A non-standard zip file was detected. Please recompress and try again.
InvalidParameterValue.ZipFileBase64BinasciiError	Failed to Base64-decode the compressed file: <code>Incorrect padding</code> . Please fix it and try again.
LimitExceeded.Eip	The EIP resource exceeded the limit.
LimitExceeded.Function	If the number of functions exceeds the upper limit, you can apply for an increase by submitting a ticket .
LimitExceeded.InitTimeout	The value of <code>InitTimeout</code> has reached the upper limit. You can submit a ticket to increase it at https://tencentcs.com/7Fixwt63 .
LimitExceeded.Memory	The memory exceeds the upper limit.
LimitExceeded.Timeout	Timeout exceeds the upper limit.
MissingParameter.Code	Failed to import Code.
MissingParameter.Runtime	Runtime is missing.
ResourceInUse	The resource is in use.

Error Code	Description
ResourceInUse.Function	This function already exists.
ResourceInUse.FunctionName	This FunctionName already exists.
ResourceNotFound	The resource does not exist.
ResourceNotFound.CfsMountInsNotMatch	Unable to find the specified mount point under the specified CFS
ResourceNotFound.CfsStatusError	CFS not available
ResourceNotFound.CfsVpcNotMatch	VPCs of the CFS instance and the SCF function are different.
ResourceNotFound.Cmq	Cmq does not exist.
ResourceNotFound.Demo	Demo does not exist.
ResourceNotFound.GetCfsMountInsError	An error occurred while getting the CFS mount target information.
ResourceNotFound.GetCfsNotMatch	An error occurred while getting the CFS information.
ResourceNotFound.ImageConfig	Failed to find the specified ImageConfig. Please create it first.
ResourceNotFound.Layer	The layer does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Role	The role does not exist.
ResourceNotFound.Vpc	The VPC or subnet does not exist.
ResourceUnavailable.Namespace	The Namespace is not available.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.Region	Region error.
UnauthorizedOperation.Role	You do not have permissions to access your Cos resources.
UnauthorizedOperation.TempCosAppid	The Appid of TempCos is not consistent with the APPID of the request account.

Error Code	Description
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.EipFixed	The specified EipFixed does not exist.
UnsupportedOperation.VpcConfig	The specified VpcConfig does not exist.

CopyFunction

最近更新时间：2023-05-09 15:35:16

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to replicate a function. You can store the replicated function in a specified Region and Namespace.

Note: This API **does not** replicate the following objects or attributes of the function:

1. Function trigger
2. Versions other than \$LATEST
3. CLS target of the logs configured in the function

You can manually configure the function after replication as required.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CopyFunction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the function to be replicated
NewFunctionName	Yes	String	Name of the new function

Parameter Name	Required	Type	Description
Namespace	No	String	Namespace of the function to be replicated. The default value is <code>default</code> .
TargetNamespace	No	String	Namespace of the replicated function. The default value is <code>default</code> .
Description	No	String	Description of the new function
TargetRegion	No	String	Region of the target of the function replication. If the value is not set, the current region is used by default.
Override	No	Boolean	It specifies whether to replace the function with the same name in the target namespace. The default option is <code>FALSE</code> . (Note: The <code>TRUE</code> option results in deletion of the function in the target namespace. Please operate with caution.) TRUE: Replaces the function. FALSE: Does not replace the function.
CopyConfiguration	No	Boolean	It specifies whether to replicate the function attributes, including environment variables, memory, timeout, function description, labels, and VPC. The default value is <code>TRUE</code> . TRUE: Replicates the function configuration. FALSE: Does not replicate the function configuration.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Replicating a function

This example shows you how to replicate a function.

Input Example

```
https://scf.tencentcloudapi.com/?Action=CopyFunction
&Namespace=default
&FunctionName=myfunc
&TargetNamespace=othersns
&NewFunctionName=newfunc
&TargetRegion=ap-shanghai
&Override=FALSE
&CopyConfiguration=TRUE
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.CopyAsyncRun	CopyAsyncRun parameter error
FailedOperation.CopyFailed	Failed to replicate the function.
FailedOperation.CopyFunction	Replication to this region is not supported.
InternalServerError	Internal error.
InternalServerError.Exception	Internal service error
InternalServerError.System	Internal system error.
InvalidParameterValue.Code	Code error.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.Environment	Environment error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Handler	Handler error.
InvalidParameterValue.Runtime	Runtime error.
LimitExceeded.Function	If the number of functions exceeds the upper limit, you can apply for an increase by submitting a ticket .
LimitExceeded.Memory	The memory exceeds the upper limit.
LimitExceeded.Timeout	Timeout exceeds the upper limit.
ResourceInUse.FunctionName	This FunctionName already exists.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.Region	Region error.
UnsupportedOperation.Region	This region is not supported.

PublishVersion

最近更新时间：2023-07-18 11:11:02

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used for users to release a new version of the function.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: PublishVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the released function
Description	No	String	Function description
Namespace	No	String	Function namespace

3. Output Parameters

Parameter Name	Type	Description

FunctionVersion	String	Function version
CodeSize	Integer	Code size
MemorySize	Integer	Maximum available memory
Description	String	Function description
Handler	String	Function entry
Timeout	Integer	Function timeout
Runtime	String	Function running environment Note: This parameter may return null, indicating that no valid values can be obtained.
Namespace	String	Function namespace
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Publishing a new version.

This example shows you how to publish a new version.

Input Example

```
https://scf.tencentcloudapi.com/?Action=PublishVersion
&FunctionName=<FunctionName>
&Description=<Description>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Namespace": "default",
    "Description": "dummytut",
    "CodeSize": 45686,
    "MemorySize": 256,
    "Handler": "scfredis.main_handler",
    "RequestId": "68c9669c-9e2c-47b0-9a01-e8406a41be59",
    "Timeout": 3,
```

```
"Runtime": "Python2.7",  
"FunctionVersion": "4"  
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.PublishVersion	You cannot publish a version in the current function state. Please try again when the state is normal.
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Description	Description error.

InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
LimitExceeded.ContainerImageAccelerate	Reached the upper limit of function versions enabling image acceleration
LimitExceeded.ContainerImageAccelerateQuota	Reached the upper limit of function versions enabling image acceleration
ResourceInUse	The resource is in use.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.PublishVersion	

ListVersionByFunction

最近更新时间：2023-07-18 11:11:02

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to query the function version based on the input parameters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListVersionByFunction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function Name
Namespace	No	String	The namespace where the function locates
Offset	No	Integer	Data offset. The default value is <code>0</code> .
Limit	No	Integer	Return data length. The default value is <code>20</code> .
Order	No	String	It specifies whether to return the results in ascending or descending order. The value is <code>ASC</code> or <code>DESC</code> .

OrderBy	No	String	It specifies the sorting order of the results according to a specified field, such as <code>AddTime</code> , <code>ModTime</code> .
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3. Output Parameters

Parameter Name	Type	Description
FunctionVersion	Array of String	Function version
Versions	Array of FunctionVersion	Function version list Note: This field may return null, indicating that no valid values is found.
TotalCount	Integer	Total number of function versions Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a function version

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListVersionByFunction
&FunctionName=xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "FunctionVersion": [
      "$LATEST",
      "3",
      "2",
      "1"
    ],
    "RequestId": "xx",
```

```
"Versions": [  
  {  
    "ModTime": "2020-09-22 00:00:00",  
    "AddTime": "2020-09-22 00:00:00",  
    "Version": "xx",  
    "Description": "xx",  
    "Status": "xx"  
  },  
  {  
    "ModTime": "2020-09-22 00:00:00",  
    "AddTime": "2020-09-22 00:00:00",  
    "Version": "xx",  
    "Description": "xx",  
    "Status": "xx"  
  },  
  {  
    "ModTime": "2020-09-22 00:00:00",  
    "AddTime": "2020-09-22 00:00:00",  
    "Version": "xx",  
    "Description": "xx",  
    "Status": "xx"  
  },  
  {  
    "ModTime": "2020-09-22 00:00:00",  
    "AddTime": "2020-09-22 00:00:00",  
    "Version": "xx",  
    "Description": "xx",  
    "Status": "xx"  
  }  
]  
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	OrderBy error.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

GetFunctionAddress

最近更新时间：2023-07-18 11:11:05

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to obtain the download address of the function code package.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetFunctionAddress.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Function name
Qualifier	No	String	Function version
Namespace	No	String	Function namespace

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Url	String	Cos address of the function
CodeSha256	String	SHA256 code of the function
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining download address of the function code

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: GetFunctionAddress
<Common request parameters>

{
  "FunctionName": "<FunctionName>"
}
```

Output Example

```
{
  "Response": {
    "Url": "http://lambda-code-1253970226.cosgz.myqcloud.com/1253970226/ledDummyAPITest/ledDummyAPITest_LATEST.zip?sign=RwvyBS5VPXz75hYNCJKHrSUHBqBhPTEyNTM5NzAyMjYmaz1BS0lEQ2dPUFdqUTZCQXh2SHR5Y2toV0FCS1ZZU0JqNTQ4cE4mZT0wJnQ9MTUyOTg1MTQxNSZyPTY5NzYyMTk3NCZmPS8xMjUzOTcwMjI2L2xlZER1bW15QVBjVGZzdC9sZWREdW1teUFQSVRlc3RfTEFURVNULnppcCZiPWxhbWJkYWNVZGU=",
    "CodeSha256": "5077f5203547b225b532434dd6fcf7c9897025d7581a9f3d474a7afee88bc696",
    "RequestId": "a90cb10a-7ad4-4270-b92d-ba0319be6dbd"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.GetFunctionAddress	Failed to get the function code address.
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Action	Invalid <code>Action</code> value. For more information, go to https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Qualifier	Unsupported function version.

ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.CodeSecret	You do not have permissions to access the code.

DeleteAlias

最近更新时间：2023-07-18 11:11:06

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete an alias of a function version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteAlias.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Name	Yes	String	Alias name
Namespace	No	String	Function namespace

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Deleting an alias

Input Example

```
https://scf.tencentcloudapi.com/?Action=DeleteAlias
&Namespace=<Namespace>
&FunctionName=<FunctionName>
&Name=<AliasName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "d1b93f9c-ac3a-412a-a4f3-6f0697099f72"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DeleteAlias	Failed to delete the alias.
InternalError.System	Internal system error.
InvalidParameterValue.Alias	The default alias cannot be deleted. Please check and try again.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
ResourceNotFound.Alias	The alias does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.

UpdateAlias

最近更新时间：2023-07-18 11:11:00

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update the configuration of an alias.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateAlias.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Name	Yes	String	Alias name
FunctionVersion	Yes	String	Master version pointed to by the alias
Namespace	No	String	Function namespace
RoutingConfig	No	RoutingConfig	Routing information of alias, which is required if you need to specify an additional version for the alias.

Description	No	String	Alias description
-------------	----	--------	-------------------

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating alias configuration

Input Example

```
https://scf.tencentcloudapi.com/?Action=UpdateAlias
&Name=<AliasName>
&Namespace=<Namespace>
&FunctionName=<FunctionName>
&FunctionVersion=<FunctionVersion>
&RoutingConfig.AdditionalVersionWeights.0.Version=<OtherVersion>
&RoutingConfig.AdditionalVersionWeights.0.Weight=<Weight>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.UpdateAlias	Failed to update the alias.
InternalError.System	Internal system error.
InvalidParameter.RoutingConfig	Incorrect <code>RoutingConfig</code> parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.AdditionalVersionWeights	Incorrect <code>AdditionalVersionWeights</code> parameter.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.RoutingConfig	The value of <code>RoutingConfig</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .
ResourceNotFound.Alias	The alias does not exist.

ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

ListAliases

最近更新时间：2023-07-18 11:11:02

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to return the list of all aliases under a function. You can filter them by the specific function version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListAliases.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Namespace	No	String	Function namespace
FunctionVersion	No	String	If this parameter is provided, only aliases associated with this function version will be returned.
Offset	No	String	Data offset. Default value: 0
Limit	No	String	Number of results to be returned. Default value: 20

3. Output Parameters

Parameter Name	Type	Description
Aliases	Array of Alias	Alias list
TotalCount	Integer	Total number of aliases Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying all aliases under function

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListAliases
&Namespace=<Namespace>
&FunctionName=<FunctionName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "xx",
    "Aliases": [
      {
        "ModTime": "2020-09-22 00:00:00",
        "Name": "xx",
        "AddTime": "2020-09-22 00:00:00",
        "FunctionVersion": "xx",
        "RoutingConfig": {
          "AdditionalVersionWeights": [
            {
              "Version": "xx",
              "Weight": 0.0
            }
          ]
        }
      }
    ]
  }
}
```

```
],
"AddtionVersionMatches": [
{
"Version": "xx",
"Expression": "xx",
"Method": "xx",
"Key": "xx"
}
],
},
"Description": "xx"
}
]
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
------------	-------------

InternalError.System	Internal system error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

GetAlias

最近更新时间：2023-07-18 11:11:05

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the alias details such as the name, description, version, and routing information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetAlias.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Name	Yes	String	Alias name
Namespace	No	String	Function namespace

3. Output Parameters

Parameter Name	Type	Description

FunctionVersion	String	Master version pointed to by the alias
Name	String	Alias name
RoutingConfig	RoutingConfig	Routing information of alias
Description	String	Alias description Note: this field may return null, indicating that no valid values can be obtained.
AddTime	Timestamp	Creation time Note: this field may return null, indicating that no valid values can be obtained.
ModTime	Timestamp	Update time Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying alias details

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetAlias
&Namespace=<Namespace>
&FunctionName=<FunctionName>
&Name=<AliasName>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ModTime": "2020-09-22 00:00:00",
    "Description": "xx",
    "AddTime": "2020-09-22 00:00:00",
    "FunctionVersion": "xx",
    "RequestId": "xx",
    "RoutingConfig": {
      "AdditionalVersionWeights": [
```

```
{
  "Version": "xx",
  "Weight": 0.3
},
{
  "Version": "xx",
  "Weight": 0.2
}
],
"AddtionVersionMatchs": [
{
  "Version": "xx",
  "Expression": "xx",
  "Method": "xx",
  "Key": "xx"
}
]
},
"Name": "xx"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.GetAlias	Failed to get the alias information.
InternalError.System	Internal system error.
InvalidParameter.RoutingConfig	Incorrect <code>RoutingConfig</code> parameter.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Namespace	Namespace error.
ResourceNotFound.Alias	The alias does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

CreateAlias

最近更新时间：2023-07-18 11:11:06

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to create an alias for a function version. You can use the alias to mark a specific function version such as DEV/RELEASE. You can also modify the version pointed to by the alias at any time.

An alias must point to a master version and can point to an additional version at the same time. If you specify an alias when invoking a function, the request will be sent to the versions pointed to by the alias. You can configure the ratio between the master version and additional version during request sending.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateAlias.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Alias name, which must be unique in the function, can contain 1 to 64 letters, digits, <code>_</code> , and <code>-</code> , and must begin with a letter
FunctionName	Yes	String	Function name

FunctionVersion	Yes	String	Master version pointed to by the alias
Namespace	No	String	Function namespace
RoutingConfig	No	RoutingConfig	Request routing configuration of alias
Description	No	String	Alias description

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an alias

Input Example

```
https://scf.tencentcloudapi.com/?Action=CreateAlias
&Name=<AliasName>
&Namespace=<Namespace>
&FunctionName=<FunctionName>
&FunctionVersion=<FunctionVersion>
&RoutingConfig.AdditionalVersionWeights.0.Version=<OtherVersion>
&RoutingConfig.AdditionalVersionWeights.0.Weight=<Weight>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CreateAlias	Failed to create the alias.
InternalServerError.System	Internal system error.
InvalidParameter.RoutingConfig	Incorrect <code>RoutingConfig</code> parameter.
InvalidParameterValue.AdditionalVersionWeights	Incorrect <code>AdditionalVersionWeights</code> parameter.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.RoutingConfig	The value of <code>RoutingConfig</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFnBW .

LimitExceeded.Alias	The number of aliases exceeds the upper limit.
ResourceInUse	The resource is in use.
ResourceInUse.Alias	The alias is in use.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

PutTotalConcurrencyConfig

最近更新时间：2023-07-18 11:11:01

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to modify the account concurrency quota.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: PutTotalConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
TotalConcurrencyMem	Yes	Integer	Account concurrency memory quota. Note: the lower limit for the account concurrency memory quota is the user's total concurrency memory used + 12800
Namespace	No	String	Namespace. Default value: <code>default</code>

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting the user concurrency memory quota

Input Example

```
https://scf.tencentcloudapi.com/?Action=PutTotalConcurrencyConfig
&TotalConcurrencyMem=128000
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. Please try again when it becomes available.
FailedOperation.ReservedExceedTotal	The value of ReservedExceedTotal exceeds the limit.
FailedOperation.TotalConcurrencyMemoryInProgress	The user already has a concurrency quota setting task in progress. Please try again later.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded.TotalConcurrencyMemory	The account concurrency memory has exceeded the limit.
LimitExceeded.UserTotalConcurrencyMemory	The value of <code>UserTotalConcurrencyMemory</code> has reached the upper limit. You can submit a ticket to increase it at https://tencentcs.com/7Fixwt63 .
MissingParameter	Missing parameter.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.TotalConcurrencyMemory	The concurrency memory quota resource was not found.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

PutReservedConcurrencyConfig

最近更新时间：2023-07-18 11:11:01

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to configure the reserved quota of a function.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: PutReservedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Specifies the function of which you want to configure the reserved quota
ReservedConcurrencyMem	Yes	Integer	Reserved memory quota of the function. Note: the upper limit for the total reserved quota of the function is the user's total concurrency memory minus 12800
Namespace	No	String	Function namespace. Default value: <code>default</code>

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Configures the reserved quota

Input Example

```
https://scf.tencentcloudapi.com/?Action=PutReservedConcurrencyConfig
&FunctionName=test
&ReservedConcurrencyMem=12800
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DebugModeStatus	This operation cannot be performed in the current debugging status.
FailedOperation.FunctionVersionStatusNotActive	This operation cannot be performed in the current function version status. Please try again when the version is in normal status.
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. Please try again when it becomes available.
FailedOperation.ProvisionedExceedReserved	The provisioned concurrency exceeds the limit.
FailedOperation.ReservedInProgress	The function already has a reserved concurrency setting task in progress. Please try again later.
FailedOperation.ServiceClosed	ServiceClosed. Please check and try again.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
LimitExceeded.FunctionReservedConcurrencyMemory	The function's reserved concurrency memory has exceeded the limit.
MissingParameter	Missing parameter.

ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation	Unauthorized operation.

PutProvisionedConcurrencyConfig

最近更新时间：2023-07-18 11:11:01

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to set the provisioned concurrency of a non-\$LATEST version of a function.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this PutProvisionedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the function for which to set the provisioned concurrency
Qualifier	Yes	String	Function version number. Note: the <code>\$LATEST</code> version does not support provisioned concurrency
VersionProvisionedConcurrencyNum	Yes	Integer	Provisioned concurrency amount. Note: this is an upper limit for the sum of provisioned concurrency amounts of all versions, which

			currently is the function's maximum concurrency quota minus 100
Namespace	No	String	Function namespace. Default value: <code>default</code>
TriggerActions.N	No	Array of TriggerAction	Scheduled provisioned concurrency scaling action
ProvisionedType	No	String	Specifies the provisioned concurrency type <code>Default</code> : Static provisioned concurrency <code>ConcurrencyUtilizationTracking</code> Scales the concurrency automatically according to the concurrency utilization. If <code>ConcurrencyUtilizationTracking</code> is passed in, <code>TrackingTarget</code> , <code>MinCapacity</code> <code>MaxCapacity</code> are required, and <code>VersionProvisionedConcurrency</code> must be <code>0</code> .
TrackingTarget	No	Float	The target concurrency utilization. Range: (two decimal places)
MinCapacity	No	Integer	The minimum number of instances. It can be smaller than <code>1</code> .
MaxCapacity	No	Integer	The maximum number of instances

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting the provisioned concurrency

Input Example

```
https://scf.tencentcloudapi.com/?Action=PutProvisionedConcurrencyConfig
&FunctionName=test
&Qualifier=1
&VersionProvisionedConcurrencyNum=10
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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Error Code	Description
FailedOperation.DebugModeStatus	This operation cannot be performed in the current debugging status.
FailedOperation.FunctionVersionStatusNotActive	This operation cannot be performed in the current version status. Please try again when the version normal status.
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. Please try again when it becomes available.
FailedOperation.ProvisionCreateTimer	Failed to create the scheduled provisioned concurrency scaling action
FailedOperation.ProvisionDeleteTimer	Failed to delete the scheduled provisioned concurrency scaling action
FailedOperation.ProvisionedExceedAvailable	Running out of available provisioned concurrency
FailedOperation.ProvisionedExceedReserved	The provisioned concurrency exceeds the limit.
FailedOperation.ProvisionedInProgress	The function version already has a provisioned concurrency setting task in progress. Please try again later.
FailedOperation.ServiceClosed	ServiceClosed. Please check and try again.
FailedOperation.UnOpenedService	The specified service has not been activated. Please apply for a ticket for activation.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.MinCapacity	MinCapacity parameter input error.
InvalidParameterValue.ProvisionTriggerCronConfigDuplicate	Cron expression of the scheduled action already exists
InvalidParameterValue.ProvisionTriggerName	TriggerName input parameter error
InvalidParameterValue.ProvisionTriggerNameDuplicate	TriggerName already exists
InvalidParameterValue.ProvisionType	ProvisionType input parameter error
InvalidParameterValue.Qualifier	Unsupported function version.
InvalidParameterValue.TrackingTarget	TrackingTarget parameter error

InvalidParameterValue.TriggerCronConfig	TriggerCronConfig input parameter error
InvalidParameterValue.TriggerCronConfigTimeInterval	The interval of triggering specified in TriggerCronConfig is smaller than the specified value.
InvalidParameterValue.TriggerProvisionedConcurrencyNum	TriggerProvisionedConcurrencyNum input parameter error
LimitExceeded.FunctionProvisionedConcurrencyMemory	The value of <code>FunctionProvisionedConcurrencyMemory</code> has reached the upper limit. You can submit a ticket to increase it at https://mc.tencent.com/dl7DzbBV .
LimitExceeded.FunctionTotalProvisionedConcurrencyMemory	The value of <code>FunctionTotalProvisionedConcurrencyMemory</code> has reached the upper limit. You can submit a ticket to increase it at https://mc.tencent.com/dl7DzbBV .
LimitExceeded.FunctionTotalProvisionedConcurrencyNum	The total amount of provisioned concurrency of the function has exceeded the limit.
LimitExceeded.MaxCapacity	Reached the upper limit of dynamic scaling.
LimitExceeded.ProvisionTriggerAction	The number of provisioned concurrency specified in the scheduled action is too large.
LimitExceeded.ProvisionTriggerInterval	The interval of triggering is too short.
MissingParameter	Missing parameter.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.

GetReservedConcurrencyConfig

最近更新时间：2023-07-18 11:11:03

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to obtain the reserved quota details of a function.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetReservedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Specifies the function of which you want to obtain the reserved quota
Namespace	No	String	Function namespace. Default value: default.

3. Output Parameters

Parameter Name	Type	Description

ReservedMem	Integer	The reserved quota of the function Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the reserved quota details of a function

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetReservedConcurrencyConfig
&FunctionName=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "ReservedMem": 128
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
MissingParameter	Missing parameter.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation	Unauthorized operation.

GetProvisionedConcurrencyConfig

最近更新时间：2023-07-18 11:11:04

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the provisioned concurrency details of a function or its specified version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetProvisionedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the function for which to get the provisioned concurrency details.
Namespace	No	String	Function namespace. Default value: default.
Qualifier	No	String	Function version number. If this parameter is left empty, the provisioned concurrency information of all function versions will be returned.

3. Output Parameters

Parameter Name	Type	Description
UnallocatedConcurrencyNum	Integer	Unallocated provisioned concurrency amount of function.
Allocated	Array of VersionProvisionedConcurrencyInfo	Allocated provisioned concurrency amount of function.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the provisioned concurrency details of function

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetProvisionedConcurrencyConfig
&FunctionName=test
&Qualifier=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "UnallocatedConcurrencyNum": 1,
    "Allocated": [
      {
        "Status": "xx",
        "Qualifier": "xx",
        "AvailableProvisionedConcurrencyNum": 1,
        "StatusReason": "xx",
        "AllocatedProvisionedConcurrencyNum": 1,
        "TriggerActions": [
          {
            "TriggerProvisionedConcurrencyNum": 1,
            "TriggerCronConfig": "xx",
            "TriggerName": "xx"
          }
        ]
      }
    ]
  }
}
```

```
]
}
],
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Qualifier	Unsupported function version.

MissingParameter	Missing parameter.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.

DeleteReservedConcurrencyConfig

最近更新时间：2023-07-18 11:11:05

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete the configuration of reserved quota.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteReservedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Specifies the function of which you want to delete the reserved quota
Namespace	No	String	Function namespace. Default value: <code>default</code>

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Removing the reserved quota of a function

Input Example

```
https://scf.tencentcloudapi.com/?Action=DeleteReservedConcurrencyConfig
&FunctionName=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DebugModeStatus	This operation cannot be performed in the current debugging status.
FailedOperation.ReservedInProgress	The function already has a reserved concurrency setting task in progress. Please try again later.
InternalError	Internal error.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation	Unauthorized operation.

DeleteProvisionedConcurrencyConfig

最近更新时间：2023-07-18 11:11:05

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete the provisioned concurrency configuration of a function version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteProvisionedConcurrencyConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Name of the function for which to delete the provisioned concurrency
Qualifier	Yes	String	Function version number
Namespace	No	String	Function namespace. Default value: <code>default</code>

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting provisioned concurrency

Input Example

```
https://scf.tencentcloudapi.com/?Action=DeleteProvisionedConcurrencyConfig
&FunctionName=test
&Qualifier=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ProvisionedInProgress	The function version already has a provisioned concurrency setting task in progress. Please try again later.
InternalError	Internal error.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Qualifier	Unsupported function version.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.

UpdateFunctionEventInvokeConfig

最近更新时间：2023-07-18 11:11:00

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update the async retry configuration of a function, including the number of retry attempts and message retention period.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateFunctionEventInvokeConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
AsyncTriggerConfig	Yes	AsyncTriggerConfig	Async retry configuration information
FunctionName	Yes	String	Function name
Namespace	No	String	Function namespace. Default value: default

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating async retry configuration

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpdateFunctionEventInvokeConfig
<Common request parameters>

{
  "FunctionName": "FunctionName",
  "Namespace": "default",
  "AsyncTriggerConfig": {
    "MsgTTL": 3600,
    "RetryConfig": [
      {
        "RetryNum": 1
      }
    ]
  }
}
```

Output Example

```
{
  "Response": {
    "RequestId": "XXXXXX"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.FunctionVersionStatusNotActive	This operation cannot be performed in the current function version status. Please try again when the version is in normal status.
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. Please try again when it becomes available.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.AsyncTriggerConfig	The parameter for async retry configuration of the function is invalid.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
LimitExceeded.MsgTTL	The message retention period in the async retry

	configuration of the function exceeds the limit.
LimitExceeded.RetryNum	The number of retry attempts in the async retry configuration of the function exceeds the limit.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.EipFixed	The specified EipFixed does not exist.
UnsupportedOperation.UpdateFunctionEventInvokeConfig	The specified configuration is not supported. Please modify and try again.
UnsupportedOperation.VpcConfig	The specified VpcConfig does not exist.

GetFunctionEventInvokeConfig

最近更新时间：2023-07-18 11:11:04

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the async retry configuration of a function, including the number of retry attempts and message retention period.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetFunctionEventInvokeConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Namespace	No	String	Function namespace. Default value: default
Qualifier	No	String	Function version. Default value: \$LATEST

3. Output Parameters

Parameter Name	Type	Description
AsyncTriggerConfig	AsyncTriggerConfig	Async retry configuration information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting async retry configuration

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: GetFunctionEventInvokeConfig
<Common request parameters>

{
  "FunctionName": "Unzip-1609933864",
  "Namespace": "default",
  "Qualifier": "$LATEST"
}
```

Output Example

```
{
  "Response": {
    "AsyncTriggerConfig": {
      "MsgTTL": 3600,
      "RetryConfig": [
        {
          "RetryNum": 1
        },
        {
          "RetryNum": -1
        }
      ]
    },
    "RequestId": "435fbf8e-d512-4f03-baf3-9cf1688f6c98"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.FunctionVersionStatusNotActive	This operation cannot be performed in the current function version status. Please try again when the version is in normal status.
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. Please try again when it becomes available.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Qualifier	Unsupported function version.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.
UnauthorizedOperation	Unauthorized operation.

InvokeFunction

最近更新时间：2023-07-18 11:11:02

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to invoke functions synchronously.

A maximum of 10000 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InvokeFunction.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Qualifier	No	String	Version or alias of the function. It defaults to <code>\$DEFAULT</code> .
Event	No	String	Function running parameter, which is in the JSON format. Maximum parameter size is 6 MB. This field corresponds to event input parameter .
LogType	No	String	Valid value: <code>None</code> (default) or <code>Tail</code> . If the value is <code>Tail</code> , <code>log</code> in the response will contain the corresponding function execution log (up to 4KB).

Namespace	No	String	Namespace. <code>default</code> is used if it's left empty.
RoutingKey	No	String	Traffic routing config in json format, e.g., {"k":"v"}. Please note that both "k" and "v" must be strings. Up to 1024 bytes allowed.

3. Output Parameters

Parameter Name	Type	Description
Result	Result	Function execution result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Running a function

Input Example

```
https://scf.tencentcloudapi.com/?Action=InvokeFunction
&FunctionName=xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "MemUsage": 3207168,
      "Log": "",
      "RetMsg": "hello from scf",
      "BillDuration": 100,
      "FunctionRequestId": "6add56fa-58f1-11e8-89a9-5254005d5fdb",
      "Duration": 0.826,
      "ErrMsg": "",
      "InvokeResult": 0
    },
    "RequestId": "c2af8a64-c922-4d55-ae0-bd86a5c2cd12"
```

```
}  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.InvokeFunction	Failed to invoke the function.
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
InvalidParameter.FunctionName	The value of <code>FunctionName</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5jXKFNBW .
InvalidParameter.RequestTooLarge	Request size

InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.ClientContext	Function running parameter error
InvalidParameterValue.FunctionType	FunctionType error
InvalidParameterValue.Param	The input parameter is not in the standard JSON format.
LimitExceeded.Quota	Reached the upper limit of quota
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.Qualifier	The version does not exist.
ResourceUnavailable.InsufficientBalance	Your balance is insufficient. Please top up first.
UnauthorizedOperation.CAM	CAM authentication failed.

GetRequestStatus

最近更新时间：2023-07-18 11:11:03

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to query the status of a single function request.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetRequestStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FunctionName	Yes	String	Function name
FunctionRequestId	Yes	String	ID of the request to be queried
Namespace	No	String	Function namespace
StartTime	No	String	Start time of the query, for example 2017-05-16 20:00:00 . If it's left empty, it defaults to 15 minutes before the current time.
EndTime	No	String	End time of the query. such as 2017-05-16 20:59:59 . If

`StartTime` is not specified, `EndTime` defaults to the current time. If `StartTime` is specified, `EndTime` is required, and it need to be later than the `StartTime`.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total running functions Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Data	Array of RequestStatus	Details of the function running status Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the execution status of a function

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetRequestStatus
&FunctionName=<FunctionName>
&FunctionRequestId=<FunctionRequestId>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Data": [
      {
        "MemUsage": 0.0,
        "RetCode": 0,
        "RetMsg": "xx",

```

```
"RequestId": "xx",
"StartTime": "xx",
"Duration": 0.0,
"RetryNum": 0,
"FunctionName": "xx"
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.TopicNotExist	This topic does not exist.
InternalError	Internal error.

InternalError.System	Internal system error.
InvalidParameter.Cls	Log parameter error
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DateTime	DateTime error.
InvalidParameterValue.Function	The value of <code>FunctionName</code> is incorrect. See https://tencentcs.com/5jXKFNBW
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.FunctionRequestId	Request ID error
InvalidParameterValue.RetCode	Invalid RetCode
InvalidParameterValue.StartTime	The start time is incorrect.
InvalidParameterValue.StartTimeOrEndTime	You need to specify both the start time and the end time.
OperationDenied.AccountIsolate	This account has been isolated.
OperationDenied.AccountNotExists	
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.

Namespace APIs

UpdateNamespace

最近更新时间：2023-07-18 11:10:59

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to update a namespace.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateNamespace.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Namespace	Yes	String	Namespace name
Description	Yes	String	Namespace description

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Updating a namespace

Input Example

```
https://scf.tencentcloudapi.com/?Action=UpdateNamespace
&Namespace=test01
&Description=fdsgfds
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "b2b845e1-d44a-4c3e-8314-b6b774b4e66f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Description	Description error.
ResourceNotFound.Namespace	Namespace does not exist.

ListNamespaces

最近更新时间：2023-05-05 10:16:40

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to display a namespace list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListNamespaces.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Limit	No	Integer	Return data length. The default value is <code>20</code> .
Offset	No	Integer	Data offset. The default value is <code>0</code> .
Orderby	No	String	It specifies the sorting order of the results according to a specified field, such as <code>Name</code> and <code>Updatetime</code> .
Order	No	String	It specifies whether to return the results in ascending or descending order. The value is <code>ASC</code> or <code>DESC</code> .
SearchKey.N	No	Array of SearchKey	Specifies the range and keyword for search. The value of <code>Key</code> can be <code>Namespace</code> or <code>Description</code> . Multiple AND

conditions can be specified.

3. Output Parameters

Parameter Name	Type	Description
Namespaces	Array of Namespace	Namespace details
TotalCount	Integer	Number of return namespaces
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Listing namespaces

This example shows you how to list namespaces.

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListNamespaces
&SearchKey.0.Key=Namespace
&SearchKey.0.Value=dev
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "Namespaces": [
      {
        "ModTime": "2020-09-22 00:00:00",
        "AddTime": "2020-09-22 00:00:00",
        "Description": "abc",
        "Name": "abc",
        "Type": "abc"
      }
    ],
    "TotalCount": 0,
  }
}
```

```
"RequestId": "abc"  
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Filters	Filters parameter error.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	OrderBy error.
InvalidParameterValue.SearchKey	The searchkey is not <code>Keyword</code> , <code>Tag</code> ,or <code>Runtime</code> .
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.

DeleteNamespace

最近更新时间：2023-07-18 11:10:59

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete the specific namespace according to the parameters passed in.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteNamespace.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Namespace	Yes	String	Namespace name

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting namespace

Input Example

```
https://scf.tencentcloudapi.com/?Action=DeleteNamespace
&Namespace=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DeleteNamespace	The default namespace cannot be deleted.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Action	Invalid <code>Action</code> value. For more information, go to https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.NamespaceInvalid	Incorrect Namespace. A namespace contains up to 30 characters of letters, digits, hyphens (-), and underscores (_).
ResourceInUse.Namespace	This Namespace already exists.
ResourceNotFound.Namespace	Namespace does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.
UnsupportedOperation	Unsupported operation.

CreateNamespace

最近更新时间：2023-05-19 16:26:32

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to create a namespace based on the input parameters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateNamespace.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Namespace	Yes	String	Namespace name
Description	No	String	Namespace description

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a namespace

This example shows you how to create a namespace.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNamespace
<Common request parameters>

{
  "Namespace": "test"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.CreateNamespace	Failed to create the namespace.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Action	Invalid <code>Action</code> value. For more information, go to https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.DefaultNamespace	Failed to create the default namespace.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.NamespaceInvalid	Incorrect Namespace. A namespace contains up to 30 characters of letters, digits, hyphens (-), and underscores (_).
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.
LimitExceeded.Namespace	If the number of namespaces exceeds the upper limit, you can apply for an increase by submitting a ticket .
ResourceInUse	The resource is in use.
ResourceInUse.Namespace	This Namespace already exists.

Error Code	Description
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.Role	Not authorized to access your COS resources.
UnsupportedOperation	Unsupported operation.

Layer Management APIs

PublishLayerVersion

最近更新时间：2023-05-05 10:16:41

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to create a version for a layer by using the given .zip file or COS object. Each time this API is called with the same layer name, a new version will be generated.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: PublishLayerVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
LayerName	Yes	String	Layer name, which can contain 1-64 English letters, digits, hyphens, and underscores, must begin with a letter, and cannot end with a hyphen or underscore
CompatibleRuntimes.N	Yes	Array of String	Runtimes compatible with layer. Multiple choices are allowed. The valid values of this parameter correspond to the valid values of the <code>Runtime</code> of the function.

Content	Yes	Code	Layer file source or content
Description	No	String	Layer version description
LicenseInfo	No	String	Software license of layer

3. Output Parameters

Parameter Name	Type	Description
LayerVersion	Integer	Version number of the layer created in this request
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Publishing layer version

Publishing layer version

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: PublishLayerVersion
<Common request parameters>

{
  "LayerName": "abc",
  "CompatibleRuntimes": [
    "abc"
  ],
  "Content": {
    "CosBucketName": "abc",
    "CosObjectName": "abc",
    "ZipFile": "abc",
    "CosBucketRegion": "abc",
    "DemoId": "abc",
    "TempCosObjectName": "abc",
    "GitUrl": "abc",
```

```
"GitUserName": "abc",
"GitPassword": "abc",
"GitPasswordSecret": "abc",
"GitBranch": "abc",
"GitDirectory": "abc",
"GitCommitId": "abc",
"GitUserNameSecret": "abc",
"ImageConfig": {
  "RegistryId": "abc",
  "ImageType": "abc",
  "ImageUri": "abc",
  "EntryPoint": "abc",
  "Command": "abc",
  "Args": "abc",
  "ContainerImageAccelerate": true
},
"Description": "abc",
"LicenseInfo": "abc"
}
```

Output Example

```
{
  "Response": {
    "LayerVersion": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.PublishLayerVersion	Failed to publish the layer version.
InternalServerError	Internal error.
InternalServerError.Exception	Internal service error
InternalServerError.System	Internal system error.
InvalidParameterValue.CompatibleRuntimes	Incorrect <code>CompatibleRuntimes</code> parameter.
InvalidParameterValue.Content	Incorrect <code>Content</code> parameter.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.CosBucketName	Invalid CosBucketName.
InvalidParameterValue.CosBucketRegion	The value of CosBucketRegion is invalid. Please modify and try again. See: https://tencentcs.com/5jXKFNBW
InvalidParameterValue.CosObjectName	Invalid CosObjectName.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.LayerName	Incorrect <code>LayerName</code> parameter.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Runtime	Runtime error.
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.
InvalidParameterValue.TempCosObjectName	Invalid TempCosObjectName.

InvalidParameterValue.ZipFileBase64BinasciiError	Failed to Base64-decode the compressed file: <code>Incorrect padding</code> . Please fix it and try again.
LimitExceeded.LayerVersions	The number of layer versions exceeds the upper limit.
ResourceInUse	The resource is in use.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.NotMC	This API is not called from the console.
UnsupportedOperation.Cos	Cos operation is not supported.

ListLayers

最近更新时间：2023-05-05 10:16:41

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to return the list of all layers, including the information of the latest version of each layer. You can filter them by the compatible runtime.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListLayers.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
CompatibleRuntime	No	String	Compatible runtimes
Offset	No	Integer	Offset
Limit	No	Integer	Limit
SearchKey	No	String	Query key, which fuzzily matches the name

3. Output Parameters

Parameter Name	Type	Description
Layers	Array of LayerVersionInfo	Layer list
TotalCount	Integer	Total number of layers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Pulling the layer list

This example shows you how to query the layer list.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ListLayers
<Common request parameters>

{
  "CompatibleRuntime": "abc",
  "Offset": 0,
  "Limit": 0,
  "SearchKey": "abc"
}
```

Output Example

```
{
  "Response": {
    "Layers": [
      {
        "CompatibleRuntimes": [
          "abc"
        ],
        "AddTime": "abc",
        "Description": "abc",
        "LicenseInfo": "abc",

```

```
"LayerVersion": 0,
"LayerName": "abc",
"Status": "abc"
},
{
"TotalCount": 0,
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
InvalidParameterValue.Runtime	Runtime error.

InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.
LimitExceeded.Layers	
UnauthorizedOperation.CAM	CAM authentication failed.

ListLayerVersions

最近更新时间：2023-05-05 10:16:42

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the information of all versions of a specified layer.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListLayerVersions.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
LayerName	Yes	String	Layer name
CompatibleRuntime.N	No	Array of String	Compatible runtimes

3. Output Parameters

--	--	--

Parameter Name	Type	Description
LayerVersions	Array of LayerVersionInfo	Layer version list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting layer version list

This example shows you how to get the layer version list.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ListLayerVersions
<Common request parameters>

{
  "LayerName": "abc",
  "CompatibleRuntime": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "LayerVersions": [
      {
        "Status": "Active",
        "LayerVersion": 1,
        "Description": "desc",
        "LicenseInfo": "",
        "AddTime": "2019-11-26 16:15:33",
        "CompatibleRuntimes": [
          "Nodejs8.9",
          "Nodejs6.10"
        ]
      }
    ]
  }
}
```

```
],  
  "LayerName": "layer3"  
},  
],  
  "RequestId": "4e9bc0ab-0b7c-45f1-8eec-e4f1f4f73e2b"  
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Runtime	Runtime error.

ResourceNotFound.Layer	The layer does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

GetLayerVersion

最近更新时间：2023-05-05 10:16:42

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the layer version details, including links used to download files in the layer.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetLayerVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
LayerName	Yes	String	Layer name
LayerVersion	Yes	Integer	Version number

3. Output Parameters

Parameter Name	Type	Description
CompatibleRuntimes	Array of String	Compatible runtimes

CodeSha256	String	SHA256 encoding of version file on the layer
Location	String	Download address of version file on the layer
AddTime	String	Version creation time
Description	String	Version description
LicenseInfo	String	License information
LayerVersion	Integer	Version number
LayerName	String	Layer name
Status	String	Current status of specific layer version. For the status values, see here
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting layer version details

This example shows you how to query the layer version details.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: GetLayerVersion
<Common request parameters>

{
  "LayerName": "abc",
  "LayerVersion": 0
}
```

Output Example

```
{
  "Response": {
    "Status": "Active",
    "LayerVersion": 1,
    "CodeSha256": "c7c8bda601817ce4faab4c4fb3e73b9a32040e0e9f31f7a649d84d4bdde9e4a5",
  }
}
```

```
"Description": "desc",
"LicenseInfo": "",
"AddTime": "2019-11-26 16:15:33",
"Location": "https://lambda-layer-in-1253665819.cos.ap-mumbai.myqcloud.com/1253970226/layer3/1/1253970226_layer3_1.zip?sign=q-sign-algorithm%3Dsha1%26q-ak%3DAKIDqbBtfGe4eSSK8CEXGjmC0e8QcnsWv6Yj%26q-sign-time%3D1582083327%3B1582093387%26q-key-time%3D1582083327%3B1582093387%26q-header-list%3D%26q-url-param-list%3D%26q-signature%3D255d3e5aaa6c7224396b39f857e134a0dfb27c89&response-content-type=application/octet-stream",
"CompatibleRuntimes": [
  "Nodejs8.9",
  "Nodejs6.10"
],
"LayerName": "layer3",
"RequestId": "6c7578ed-b816-4e50-930a-54e855452b8b"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.System	Internal system error.
ResourceNotFound.LayerVersion	The layer version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

DeleteLayerVersion

最近更新时间：2023-05-05 10:16:42

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to delete a specified version of a specified layer. The deleted version cannot be associated with a function, but the deletion does not affect functions that are referencing this layer.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteLayerVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
LayerName	Yes	String	Layer name
LayerVersion	Yes	Integer	Version number

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a layer version

This example shows you how to delete a layer version.

Input Example

```
POST / HTTP/1.1
Host: scf.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteLayerVersion
<Common request parameters>

{
  "LayerName": "abc",
  "LayerVersion": 0
}
```

Output Example

```
{
  "Response": {
    "RequestId": "a1ffbba5-5489-45bc-89c5-453e50d5386e"
  }
}
```

5. Developer Resources

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DeleteLayerVersion	Failed to delete the layer version.
FailedOperation.OperationConflict	Operation conflict.
InternalError	Internal error.
InternalError.System	Internal system error.
ResourceInUse.LayerVersion	The layer version is in use.
ResourceNotFound.LayerVersion	The layer version does not exist.
UnauthorizedOperation.CAM	CAM authentication failed.

Async Event Management APIs

TerminateAsyncEvent

最近更新时间：2023-07-18 11:11:06

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to terminate a running async function event.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: TerminateAsyncEver
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
InvokeRequestId	Yes	String	Terminated invocation request ID
Namespace	No	String	Namespace
GraceShutdown	No	Boolean	Whether to enable grace shutdown. If it's <code>true</code> , a <code>SIGTERM</code> si the specified request. See [Sending termination signal] (https://intl.cloud.tencent.com/document/product/583/63969?)

			from_cn_redirect=1#.E5.8F.91.E9.80.81.E7.BB.88.E6.AD.A2.E4.BF It's set to <code>false</code> by default.
--	--	--	---

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Terminating async event

Input Example

```
https://scf.tencentcloudapi.com/?Action=TerminateAsyncEvent
&Namespace=default
&FunctionName=helloworld
&InvokeRequestId=b379787f-8487-4bac-bd8c-17a20a9ce40e
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "ee33a89b-3825-4d2f-bd88-35a8fa27aae1"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.AsyncEventStatus	This operation is not supported by the current async event status. Please try again later.
InvalidParameterValue.FunctionName	The function does not exist.
ResourceNotFound.AsyncEvent	The specified <code>AsyncEvent</code> was not found. Please create it and try again.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.

ListAsyncEvents

最近更新时间：2023-07-18 11:11:07

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to pull the list of async function events.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListAsyncEvents.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
FunctionName	Yes	String	Function name
Namespace	No	String	Namespace
Qualifier	No	String	Filter (function version)
InvokeType.N	No	Array of String	Filter (invocation type list)
Status.N	No	Array of String	Filter (event status list)

StartTimeInterval	No	TimeInterval	Filter (left-closed-right-open range of execution start time)
EndTimeInterval	No	TimeInterval	Filter (left-closed-right-open range of execution end time)
Order	No	String	Valid values: ASC, DESC. Default value: DESC
Orderby	No	String	Valid values: StartTime, EndTime. Default value: StartTime
Offset	No	Integer	Data offset. Default value: 0
Limit	No	Integer	Number of results to be returned. Default value: 20. Maximum value: 100
InvokeRequestId	No	String	Filter (event invocation request ID)

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of events that meet the filter
EventList	Array of AsyncEvent	Async event list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Pulling async function event list

Input Example

```
https://scf.tencentcloudapi.com/?Action=ListAsyncEvents
&FunctionName=helloworld
&Qualifier=1
&Offset=0
&Limit=20
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "EventList": [
      {
        "InvokeRequestId": "xxxxxxxxxxxxxxxx",
        "Qualifier": "1",
        "Status": "FINISHED",
        "InvokeType": "COS",
        "StartTime": "2020-12-01 08:35:00.000",
        "EndTime": "2020-12-01 08:35:30.000"
      },
      {
        "InvokeRequestId": "xxxxxxxxxxxxxxxx",
        "Qualifier": "1",
        "Status": "RUNNING",
        "InvokeType": "COS",
        "StartTime": "2020-12-01 08:35:00.000",
        "EndTime": ""
      }
    ],
    "RequestId": "26c5f1a9-ebd4-407e-83d7-ae8001cca644"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.InvokeType	The <code>InvokeType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Limit	Limit error.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.Orderby	Orderby error.
InvalidParameterValue.Status	The <code>Status</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Version	The version does not exist.

GetAsyncEventStatus

最近更新时间：2023-05-05 10:16:50

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the status of an async function execution event. The event status is retained for 3*24 hours, counting from the completion of the event.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetAsyncEventStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
InvokeRequestId	Yes	String	ID of the async execution request

3. Output Parameters

Parameter Name	Type	Description

Result	AsyncEventStatus	Async event status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying async event status of a function

This example shows you how to query async event status of a function.

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetAsyncEventStatus
&InvokeRequestId=b379787f-8487-4bac-bd8c-17a20a9ce40e
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "Result": {
      "Status": "abc",
      "StatusCode": 0,
      "InvokeRequestId": "abc"
    },
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.AsyncEventStatus	This operation is not supported by the current async event status. Please try again later.
ResourceNotFound.AsyncEvent	The specified AsyncEvent was not found. Please create it and try again.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.Namespace	Namespace does not exist.

Other APIs

GetAccount

最近更新时间：2023-07-18 11:10:59

1. API Description

Domain name for API request: scf.tencentcloudapi.com.

This API is used to get the account information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetAccount.
Version	Yes	String	Common Params . The value used for this API: 2018-04-16.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
AccountUsage	UsagelInfo	Namespace usage information

AccountLimit	LimitsInfo	Namespace limit information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting account information

Input Example

```
https://scf.tencentcloudapi.com/?Action=GetAccount
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "AccountLimit": {
      "Namespace": [
        {
          "TimeoutLimit": 0,
          "MaxMsgTTL": 0,
          "Namespace": "xx",
          "ConcurrentExecutions": 20,
          "MinMsgTTL": 0,
          "Trigger": {
            "Vod": 0,
            "Cos": 2,
            "Total": 11,
            "Cm": 0,
            "Timer": 3,
            "Ckafka": 2,
            "Mps": 0,
            "Apigw": 2,
            "Clb": 0,
            "Cmq": 2,
            "Cls": 0
          },
          "RetryNumLimit": 0,
          "FunctionsCount": 0,
          "InitTimeoutLimit": 0,
          "TestModelLimit": 0
        }
      ]
    }
  }
}
```

```
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
  "TimeoutLimit": 0,
  "InitTimeoutLimit": 0,
  "MaxMsgTTL": 0
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
  "TimeoutLimit": 0,
  "InitTimeoutLimit": 0,
```

```
"MaxMsgTTL": 0
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
  "TimeoutLimit": 0,
  "InitTimeoutLimit": 0,
  "MaxMsgTTL": 0
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
  "TimeoutLimit": 0,
```

```
"InitTimeoutLimit": 0,
"MaxMsgTTL": 0
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
  "TimeoutLimit": 0,
  "InitTimeoutLimit": 0,
  "MaxMsgTTL": 0
},
{
  "TestModelLimit": 0,
  "FunctionsCount": 0,
  "Namespace": "xx",
  "ConcurrentExecutions": 20,
  "MinMsgTTL": 0,
  "Trigger": {
    "Vod": 0,
    "Cos": 2,
    "Cm": 0,
    "Clb": 0,
    "Timer": 2,
    "Ckafka": 2,
    "Mps": 0,
    "Apigw": 2,
    "Total": 10,
    "Cmq": 2,
    "Cls": 0
  },
  "RetryNumLimit": 0,
```

```
"TimeoutLimit": 0,
"InitTimeoutLimit": 0,
"MaxMsgTTL": 0
},
],
"NamespacesCount": 50
},
"RequestId": "xx",
"AccountUsage": {
"TotalConcurrencyMem": 0,
"Namespace": [
{
"Functions": [
"testfun01",
"testfun02"
],
"Namespace": "xx",
"FunctionsCount": 2
},
{
"Functions": [
"xx"
],
"Namespace": "xx",
"FunctionsCount": 0
},
{
"Functions": [
"xx"
],
"Namespace": "xx",
"FunctionsCount": 0
},
{
"Functions": [
"louis06",
"louis05",
"louisw-f38e691",
"louisw-f38e69",
"louis04",
"louis02",
"louis01"
],
"Namespace": "xx",
"FunctionsCount": 7
},
{
```

```
"Functions": [
  "xx"
],
"Namespace": "xx",
"FunctionsCount": 0
},
{
  "Functions": [
    "alano1",
    "alanoluo_desc",
    "ttstss"
  ],
  "Namespace": "xx",
  "FunctionsCount": 3
},
{
  "Functions": [
    "xx"
  ],
  "Namespace": "xx",
  "FunctionsCount": 0
}
],
"TotalAllocatedConcurrencyMem": 0,
"NamespacesCount": 7,
"UserConcurrencyMemLimit": 0
}
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specification. Please fix it and try again.
UnauthorizedOperation.CAM	CAM authentication failed.

Data Types

最近更新时间：2023-07-18 11:11:07

Alias

Version alias of function

Used by actions: ListAliases.

Name	Type	Required	Description
FunctionVersion	String	Yes	Master version pointed to by the alias
Name	String	Yes	Alias name
RoutingConfig	RoutingConfig	Yes	Routing information of alias Note: this field may return null, indicating that no valid values can be obtained.
Description	String	No	Description Note: this field may return null, indicating that no valid values can be obtained.
AddTime	Timestamp	No	Creation time Note: this field may return null, indicating that no valid values can be obtained.
ModTime	Timestamp	No	Update time Note: this field may return null, indicating that no valid values can be obtained.

AsyncEvent

Async event

Used by actions: ListAsyncEvents.

Name	Type	Description
InvokeRequestId	String	Invocation request ID
InvokeType	String	Invocation type

Qualifier	String	Function version
Status	String	Event status. Values: <code>RUNNING</code> ; <code>FINISHED</code> (invoked successfully); <code>ABORTED</code> (invocation ended); <code>FAILED</code> (invocation failed)
StartTime	String	Invocation start time in the format of "%Y-%m-%d %H:%M:%S.%f"
EndTime	String	Invocation end time in the format of "%Y-%m-%d %H:%M:%S.%f"

AsyncEventStatus

Async event status

Used by actions: GetAsyncEventStatus.

Name	Type	Description
Status	String	Async event status. Values: <code>RUNNING</code> (running); <code>FINISHED</code> (invoked successfully); <code>ABORTED</code> (invocation ended); <code>FAILED</code> (invocation failed).
StatusCode	Integer	Request status code
InvokeRequestId	String	Async execution request ID

AsyncTriggerConfig

Async retry configuration details of function

Used by actions: GetFunctionEventInvokeConfig, UpdateFunctionEventInvokeConfig.

Name	Type	Required	Description
RetryConfig	Array of RetryConfig	Yes	Async retry configuration of function upon user error
MsgTTL	Integer	Yes	Message retention period

Code

Function code

Used by actions: PublishLayerVersion, UpdateFunctionCode.

--	--	--	--

Name	Type	Required	Description
CosBucketName	String	No	Object bucket name (enter the custom part of the bucket name without <code>-appid</code>)
CosObjectName	String	No	File path of code package stored in COS, which should start with <code>/</code>
ZipFile	String	No	This parameter contains a .zip file (up to 50 MB) of the function code file and its dependencies. When this API is used, the content of the .zip file needs to be Base64-encoded
CosBucketRegion	String	No	COS region. For Beijing regions, you need to import <code>ap-beijing</code> . For Beijing Region 1, you need to input <code>ap-beijing-1</code> . For other regions, no import is required.
Demold	String	No	<code>DemoId</code> is required if Demo is used for the creation.
TempCosObjectName	String	No	<code>TempCosObjectName</code> is required if TempCos is used for the creation.
GitUrl	String	No	(Disused) Git address
GitUserName	String	No	(Disused) Git username
GitPassword	String	No	(Disused) Git password
GitPasswordSecret	String	No	(Disused) Git password after encryption. It's usually not required.
GitBranch	String	No	(Disused) Git branch
GitDirectory	String	No	(Disused) Directory to the codes in the Git repository.
GitCommitId	String	No	(Disused)
GitUserNameSecret	String	No	(Disused) Git username after encryption. It's usually not required.
ImageConfig	ImageConfig	No	TCR image configurations

Filter

Key-value pair filters for conditional filtering queries, such as filtering ID, name, and status.

If more than one filter exists, the logical relationship between these filters is `AND`.

If multiple values exist in one filter, the logical relationship between these values under the same filter is `OR`.

Used by actions: ListFunctions, ListTriggers.

Name	Type	Required	Description
Name	String	Yes	Fields to be filtered. Up to 10 conditions allowed. Values of <code>Name</code> : <code>VpcId</code> , <code>SubnetId</code> , <code>ClsTopicId</code> , <code>ClsLogsetId</code> , <code>Role</code> , <code>CfsId</code> , <code>CfsMountInsId</code> , <code>Eip</code> . Values limit: 1. Name options: Status, Runtime, FunctionType, PublicNetStatus, AsyncRunEnable, TraceEnable. Values limit: 20. When <code>Name</code> is <code>Runtime</code> , <code>CustomImage</code> refers to the image type function
Values	Array of String	Yes	Filter values of the field

Function

Function list

Used by actions: ListFunctions.

Name	Type	Description
ModTime	String	Modification time
AddTime	String	Creation time
Runtime	String	Runtime Note: This parameter may return null, indicating that no valid values can be obtained.
FunctionName	String	Function name
FunctionId	String	Function ID
Namespace	String	Namespace
Status	String	Function status. For valid values and status change process, please see here

StatusDesc	String	Function status details
Description	String	Function description
Tags	Array of Tag	Function tag
Type	String	Function type. The value is <code>HTTP</code> or <code>Event</code> .
StatusReasons	Array of StatusReason	Cause of function failure
TotalProvisionedConcurrencyMem	Integer	Sum of provisioned concurrence memory for all function versions Note: this field may return null, indicating that no valid values can be obtained.
ReservedConcurrencyMem	Integer	Reserved memory for function concurrence Note: this field may return null, indicating that no valid values can be obtained.
AsyncRunEnable	String	Asynchronization attribute of the function. Values: <code>TRUE</code> and <code>FALSE</code> .
TraceEnable	String	Whether to enable call tracing for ansynchronized functions. Values: <code>TRUE</code> and <code>FALSE</code> .

FunctionLog

Log information

Used by actions: `GetFunctionLogs`.

Name	Type	Description
FunctionName	String	Function name
RetMsg	String	Return value after the function is executed
RequestId	String	RequestId corresponding to the executed function
StartTime	Timestamp	Start time of the function execution
RetCode	Integer	Function execution result. <code>0</code> indicates successful execution and other values indicate failure.
InvokeFinished	Integer	It specifies whether the function invocation is finished. <code>1</code> indicates

		execution completion and other values indicate that exceptions occurred during the invocation.
Duration	Float	Duration of the function execution. The unit is millisecond (ms).
BillDuration	Integer	Function billing duration. The unit is millisecond (ms). The value is rounded up to a multiple of 100 ms.
MemUsage	Integer	Actual memory size used during the function execution. The unit is byte.
Log	String	Function execution logs
Level	String	Log level
Source	String	Log source
RetryNum	Integer	Number of retries

FunctionVersion

Function version information

Used by actions: ListVersionByFunction.

Name	Type	Required	Description
Version	String	Yes	Function version name
Description	String	No	Version description Note: This field may return null, indicating that no valid values is found.
AddTime	Timestamp	No	The creation time Note: This field may return null, indicating that no valid value was found.
ModTime	Timestamp	No	Update time Note: This field may return null, indicating that no valid value was found.
Status	String	No	Version status Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

ImageConfig

TCR image information

Used by actions: PublishLayerVersion, UpdateFunctionCode.

Name	Type	Required	Description
ImageType	String	Yes	Image repository type, which can be <code>personal</code> or <code>enterprise</code>
ImageUri	String	Yes	{domain}/{namespace}/{imageName}:{tag}@{digest}
RegistryId	String	No	The temp token that a TCR Enterprise instance uses to obtain an image. It's required when <code>ImageType</code> is <code>enterprise</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
EntryPoint	String	No	Disused Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Command	String	No	The command to start up the container, such as <code>python</code> . If it's not specified, Entrypoint in Dockerfile is used. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Args	String	No	The parameters to start up the container. Separate parameters with spaces, such as <code>u app.py</code> . If it's not specified, <code>CMD</code> in Dockerfile is used. Note: This field may return <code>null</code> , indicating that no valid value can be found.
ContainerImageAccelerate	Boolean	No	Whether to enable image acceleration. It defaults to <code>False</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ImagePort	Integer	No	Image function port settings <code>-1</code> : No port-specific image functions <code>0</code> : Default port (Port 9000) Others: Special ports Note: This field may return null, indicating that no valid values can be obtained.

LayerVersionInfo

Layer version information

Used by actions: ListLayerVersions, ListLayers.

Name	Type	Description
CompatibleRuntimes	Array of String	Runtime applicable to a version Note: This field may return null, indicating that no valid values can be obtained.
AddTime	String	Creation time
Description	String	Version description Note: This field may return null, indicating that no valid values can be obtained.
LicenseInfo	String	License information Note: This field may return null, indicating that no valid values can be obtained.
LayerVersion	Integer	Version number
LayerName	String	Layer name
Status	String	Current status of specific layer version. For valid values, please see here
Stamp	String	Stamp Note: This field may return null, indicating that no valid values can be obtained.

LimitsInfo

Limit information

Used by actions: GetAccount.

Name	Type	Description
NamespacesCount	Integer	Limit of namespace quantity

Namespace	Array of NamespaceLimit	Namespace limit information
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LogFilter

Log filtering criteria, which is for distinguishing between logs of successful and failed execution

Used by actions: [GetFunctionLogs](#).

Name	Type	Required	Description
RetCode	String	No	Values of <code>filter.RetCode</code> include: not0, indicating that only logs of failed execution will be returned. is0, indicating that only logs of successful execution will be returned. TimeLimitExceeded, indicating that logs of function invocations which timed out will be returned. ResourceLimitExceeded, indicating that logs of function invocations during which resources exceeded the upper limit will be returned. UserCodeException, indicating that logs of function invocations during which a user code error occurred will be returned. Blank, indicating that all logs will be returned.

LogSearchContext

Log search context

Used by actions: [GetFunctionLogs](#).

Name	Type	Required	Description
Offset	String	Yes	Offset.
Limit	Integer	Yes	Log record number
Keyword	String	No	Log keyword
Type	String	No	Log type. The value is <code>Application</code> (default) or <code>Platform</code> .

Namespace

Namespace

Used by actions: ListNamespaces.

Name	Type	Description
ModTime	Timestamp	Creation time of the namespace
AddTime	Timestamp	Modification time of the namespace
Description	String	Namespace description
Name	String	Namespace name
Type	String	The default value is default. TCB indicates that the namespace is developed and created through the mini-program cloud.

NamespaceLimit

Namespace limit

Used by actions: GetAccount.

Name	Type	Description
FunctionsCount	Integer	Total number of functions
Trigger	TriggerCount	Trigger information
Namespace	String	Namespace name
ConcurrentExecutions	Integer	Concurrency
TimeoutLimit	Integer	Timeout limit
TestModelLimit	Integer	Test event limit Note: this field may return null, indicating that no valid values can be obtained.
InitTimeoutLimit	Integer	Initialization timeout limit
RetryNumLimit	Integer	Limit of async retry attempt quantity
MinMsgTTL	Integer	Lower limit of message retention time for async retry
MaxMsgTTL	Integer	Upper limit of message retention time for async retry

NamespaceUsage

Namespace usage information

Used by actions: GetAccount.

Name	Type	Description
Functions	Array of String	Function array
Namespace	String	Namespace name
FunctionsCount	Integer	Number of functions in namespace
TotalConcurrencyMem	Integer	Total memory quota of the namespace Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
TotalAllocatedConcurrencyMem	Integer	Concurrency usage of the namespace Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
TotalAllocatedProvisionedMem	Integer	Provisioned concurrency usage of the namespace Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

RequestStatus

Running status of the function

Used by actions: GetRequestStatus.

Name	Type	Description
FunctionName	String	Function name
RetMsg	String	Return value after the function is executed
RequestId	String	Request ID
StartTime	String	Request start time
RetCode	Integer	Result of the request. <code>0</code> : succeeded, <code>1</code> : running, <code>-1</code> : exception

Duration	Float	Time consumed for the request in ms
MemUsage	Float	Time consumed by the request in MB
RetryNum	Integer	Retry Attempts

Result

Response of the executed function

Used by actions: Invoke, InvokeFunction.

Name	Type	Description
Log	String	It indicates the log output during the function execution. Null is returned for asynchronous invocations.
RetMsg	String	It indicates the response from the executed function. Null is returned for asynchronous invocations.
ErrMsg	String	It indicates the error message of the executed function. Null is returned for asynchronous invocations.
MemUsage	Integer	It indicates the memory size (in bytes) when the function is running. Null is returned for asynchronous invocations.
Duration	Float	It indicates the duration (in milliseconds) required for running the function. Null is returned for asynchronous invocations.
BillDuration	Integer	It indicates the billing duration (in milliseconds) for the function. Null is returned for asynchronous invocations.
FunctionRequestId	String	ID of the executed function
InvokeResult	Integer	The status code of the request. It's not available for <code>Invoke</code> API.

RetryConfig

Async retry configuration

Used by actions: GetFunctionEventInvokeConfig, UpdateFunctionEventInvokeConfig.

Name	Type	Required	Description

RetryNum	Integer	Yes	Number of retry attempts
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RoutingConfig

Version routing configuration of alias

Used by actions: CreateAlias, GetAlias, ListAliases, UpdateAlias.

Name	Type	Required	Description
AdditionalVersionWeights	Array of VersionWeight	No	Additional version with random weight-based routing
AdditionVersionMatches	Array of VersionMatch	No	Additional version with rule-based routing

SearchKey

Key-value condition for keyword search

Used by actions: ListNamespaces.

Name	Type	Required	Description
Key	String	Yes	Search range
Value	String	Yes	Keyword for search

StatusReason

State reason description

Used by actions: ListFunctions.

Name	Type	Description
ErrorCode	String	Error code
ErrorMessage	String	Error message

Tag

Function tag

Used by actions: ListFunctions.

Name	Type	Required	Description
Key	String	Yes	Tag key
Value	String	Yes	Tag value

TimeInterval

Left-closed-right-open time range between the start time and end time in the format of "%Y-%m-%d %H:%M:%S"

Used by actions: ListAsyncEvents.

Name	Type	Required	Description
Start	String	Yes	Start time (inclusive) in the format of "%Y-%m-%d %H:%M:%S"
End	String	Yes	End time (exclusive) in the format of "%Y-%m-%d %H:%M:%S"

Trigger

Trigger type

Used by actions: CreateTrigger.

Name	Type	Description
ModTime	Timestamp	Latest modification time of the trigger
Type	String	Trigger type
TriggerDesc	String	Detailed trigger configuration
TriggerName	String	Trigger name
AddTime	Timestamp	Creation time of the trigger
Enable	Integer	Enabling switch

CustomArgument	String	Custom parameter
AvailableStatus	String	Trigger status
Qualifier	String	The alias or version bound with the trigger
Description	String	Trigger description

TriggerAction

Details of a scheduled provisioned concurrency scaling action

Used by actions: GetProvisionedConcurrencyConfig, PutProvisionedConcurrencyConfig.

Name	Type	Required	Description
TriggerName	String	Yes	Scheduled action name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TriggerProvisionedConcurrencyNum	Integer	Yes	Target provisioned concurrency of the scheduled scaling action Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TriggerCronConfig	String	Yes	Trigger time of the scheduled action in Cron expression. Seven fields are required and should be separated with a space. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ProvisionedType	String	No	The provision type. Value: <code>Default</code> Note: This field may return <code>null</code> , indicating that no valid value can be found.

TriggerCount

`TriggerCount` describes the numbers of triggers in different types

Used by actions: GetAccount.

Name	Type	Description

Cos	Integer	Number of COS triggers
Timer	Integer	Number of timer triggers
Cmq	Integer	Number of CMQ triggers
Total	Integer	Total number of triggers
Ckafka	Integer	Number of CKafka triggers
Apigw	Integer	Number of API Gateway triggers
Cls	Integer	Number of CLS triggers
Clb	Integer	Number of CLB triggers
Mps	Integer	Number of MPS triggers
Cm	Integer	Number of CM triggers
Vod	Integer	Number of VOD triggers
Eb	Integer	Number of EventBridge triggers Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

TriggerInfo

Trigger information

Used by actions: ListTriggers.

Name	Type	Description
Enable	Integer	Whether to enable
Qualifier	String	Function version or alias
TriggerName	String	Trigger name
Type	String	Trigger type
TriggerDesc	String	Detailed configuration of trigger
AvailableStatus	String	Whether the trigger is available
CustomArgument	String	Custom parameter Note: this field may return null, indicating that no valid values can be

		obtained.
AddTime	Timestamp	Trigger creation time
ModTime	Timestamp	Trigger last modified time
Description	String	Description of a custom trigger Note: This parameter may return null, indicating that no valid values can be obtained.

UsageInfo

Usage information

Used by actions: GetAccount.

Name	Type	Description
NamespacesCount	Integer	Number of namespaces
Namespace	Array of NamespaceUsage	Namespace details
TotalConcurrencyMem	Integer	Upper limit of user concurrency memory in the current region
TotalAllocatedConcurrencyMem	Integer	Quota of configured user concurrency memory in the current region
UserConcurrencyMemLimit	Integer	Quota of account concurrency actually configured by user

VersionMatch

Function version with match rule

Used by actions: CreateAlias, GetAlias, UpdateAlias.

Name	Type	Required	Description
Version	String	Yes	Function version name
Key	String	Yes	Matching rule key. When the API is called, pass in the <code>key</code> to route the request to the specified version based on the matching rule

			Header method: Enter "invoke.headers.User" for <code>key</code> and pass in <code>RoutingKey: {"User": "value"}</code> when invoking a function through <code>invoke</code> for invocation based on rule matching
Method	String	Yes	Match method. Valid values: range: range match exact: exact string match
Expression	String	Yes	Rule requirements for range match: It should be described in an open or closed range, i.e., <code>(a,b)</code> or <code>[a,b]</code> , where both a and b are integers Rule requirements for exact match: Exact string match

VersionProvisionedConcurrencyInfo

Provisioned concurrency information of function version, including the set provisioned concurrency amount, available provisioned concurrency amount, and provisioned concurrency setting task status.

Used by actions: GetProvisionedConcurrencyConfig.

Name	Type	Description
AllocatedProvisionedConcurrencyNum	Integer	Set provisioned concurrency amount.
AvailableProvisionedConcurrencyNum	Integer	Currently available provisioned concurrency amount.
Status	String	Provisioned concurrency setting task status. <code>Done</code> : completed; <code>InProgress</code> : in progress; <code>Failed</code> : partially or completely failed.
StatusReason	String	Status description of provisioned concurrency setting task.
Qualifier	String	Function version number
TriggerActions	Array of TriggerAction	List of scheduled provisioned concurrency scaling actions Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

VersionWeight

Function version with weight

Used by actions: CreateAlias, GetAlias, UpdateAlias.

Name	Type	Required	Description
Version	String	Yes	Function version name
Weight	Float	Yes	Version weight

Error Codes

最近更新时间：2023-07-25 15:02:26

Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	<code>Authorization</code> in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.

Error Code	Description
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.ApiGateway	Failed to create the API gateway trigger.
FailedOperation.Apigw	Failed to create the trigger.
FailedOperation.AsyncEventStatus	This operation is not supported by the current asy status. Please try again later.
FailedOperation.AuthFailure	Login information verification failed and token ver failed.
FailedOperation.CallRoleFailed	Failed to query the role information.

Error Code	Description
FailedOperation.CopyAsyncRun	CopyAsyncRun parameter error
FailedOperation.CopyFailed	Failed to replicate the function.
FailedOperation.CopyFunction	Replication to this region is not supported.
FailedOperation.Cos	Failed to operate on the COS resources.
FailedOperation.CreateAlias	Failed to create the alias.
FailedOperation.CreateNamespace	Failed to create the namespace.
FailedOperation.CreateTrigger	This operation is not supported in the current func
FailedOperation.DebugModeStatus	This operation cannot be performed in the current debugging status.
FailedOperation.DeleteAlias	Failed to delete the alias.
FailedOperation.DeleteFunction	This operation cannot be performed in the current status. Please try again when the function is in no status.
FailedOperation.DeleteLayerVersion	Failed to delete the layer version.
FailedOperation.DeleteNamespace	The default namespace cannot be deleted.
FailedOperation.DeleteTrigger	Failed to delete the trigger.
FailedOperation.FunctionNameStatusError	You cannot update code in the current function st Please try again when the state is normal.
FailedOperation.FunctionStatusError	Operation failed. The function is deploying.
FailedOperation.FunctionVersionStatusNotActive	This operation cannot be performed in the current version status. Please try again when the version normal status.
FailedOperation.GetAlias	Failed to get the alias information.
FailedOperation.GetFunctionAddress	Failed to get the function code address.
FailedOperation.InsufficientBalance	The current account or namespace is in arrears. I again when it becomes available.
FailedOperation.InvokeFunction	Failed to invoke the function.

Error Code	Description
FailedOperation.OperationConflict	Operation conflict.
FailedOperation.ProvisionCreateTimer	Failed to create the scheduled provisioned concurrency scaling action
FailedOperation.ProvisionDeleteTimer	Failed to delete the scheduled provisioned concurrency scaling action
FailedOperation.ProvisionedExceedAvailable	Running out of available provisioned concurrency
FailedOperation.ProvisionedExceedReserved	The provisioned concurrency exceeds the limit.
FailedOperation.ProvisionedInProgress	The function version already has a provisioned concurrency setting task in progress. Please try again later.
FailedOperation.PublishLayerVersion	Failed to publish the layer version.
FailedOperation.PublishVersion	You cannot publish a version in the current function state. Please try again when the state is normal.
FailedOperation.QueryError	
FailedOperation.ReservedExceedTotal	The value of ReservedExceedTotal exceeds the limit.
FailedOperation.ReservedInProgress	The function already has a reserved concurrency task in progress. Please try again later.
FailedOperation.ServiceClosed	ServiceClosed. Please check and try again.
FailedOperation.TopicNotExist	This topic does not exist.
FailedOperation.TotalConcurrencyMemoryInProgress	The user already has a concurrency quota setting in progress. Please try again later.
FailedOperation.UnOpenedService	The specified service has not been activated. Please apply for a ticket for activation.
FailedOperation.UpdateAlias	Failed to update the alias.
FailedOperation.UpdateFunctionCode	You cannot update code in the current function state. Please try again when the state is normal.
FailedOperation.UpdateStatus	Failed to update the status
FailedOperation.UpdateTriggerStatus	The new status is the same as the previous one.

Error Code	Description
InternalError.ApiGateway	Internal errors occurred during the creation of the trigger.
InternalError.Ckafka	ckafka API failure.
InternalError.Cmq	Failed to delete the cmq trigger.
InternalError.Cos	Failed to update the trigger.
InternalError.ES	ES error.
InternalError.Exception	Internal service error
InternalError.System	Internal system error.
InvalidParameter.Cls	Log parameter error
InvalidParameter.FunctionName	The value of <code>FunctionName</code> does not conform specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5j
InvalidParameter.ParamError	Function creation parameter error.
InvalidParameter.Payload	Invalid request parameter.
InvalidParameter.RequestTooLarge	Request size
InvalidParameter.RoleCheck	RoleCheck parameter error
InvalidParameter.RoutingConfig	Incorrect <code>RoutingConfig</code> parameter.
InvalidParameterValue.Action	Invalid <code>Action</code> value. For more information, go to https://tencentcs.com/5jXKFNBW .
InvalidParameterValue.AdditionalVersionWeights	Incorrect <code>AdditionalVersionWeights</code> parameter.
InvalidParameterValue.Alias	The default alias cannot be deleted. Please check again.
InvalidParameterValue.ApiGateway	ApiGateway parameter error.
InvalidParameterValue.Args	The value of Args is incorrect.
InvalidParameterValue.AsyncTriggerConfig	The parameter for async retry configuration of the trigger is invalid.

Error Code	Description
InvalidParameterValue.Cdn	Cdn error.
InvalidParameterValue.Ckafka	Ckafka error.
InvalidParameterValue.ClientContext	Function running parameter error
InvalidParameterValue.Cmq	Cmq error.
InvalidParameterValue.Code	Code error.
InvalidParameterValue.CodeSecret	CodeSecret error.
InvalidParameterValue.CodeSource	CodeSource error.
InvalidParameterValue.Command	The value of Command[Entrypoint] is incorrect.
InvalidParameterValue.CompatibleRuntimes	Incorrect <code>CompatibleRuntimes</code> parameter.
InvalidParameterValue.Content	Incorrect <code>Content</code> parameter.
InvalidParameterValue.Cos	Cos error.
InvalidParameterValue.CosBucketName	Invalid CosBucketName.
InvalidParameterValue.CosBucketRegion	The value of CosBucketRegion is invalid. Please and try again. See: https://tencentcs.com/5jXKFh
InvalidParameterValue.CosNotifyRuleConflict	COS notification rule conflict
InvalidParameterValue.CosObjectName	Invalid CosObjectName.
InvalidParameterValue.CustomArgument	CustomArgument exceeds the length limit.
InvalidParameterValue.DateTime	DateTime error.
InvalidParameterValue.DefaultNamespace	Failed to create the default namespace.
InvalidParameterValue.Demo	The code parameter of the function template corr with the Demold is error.
InvalidParameterValue.Demold	The Demold does not exist.
InvalidParameterValue.Description	Description error.
InvalidParameterValue.DnsInfo	The configuration of the environment variable DNS[OS_NAMESERVER] is incorrect.

Error Code	Description
InvalidParameterValue.Enable	The value of <code>Enable</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5j
InvalidParameterValue.Environment	Environment error.
InvalidParameterValue.Filters	Filters parameter error.
InvalidParameterValue.Function	The value of <code>FunctionName</code> is incorrect. See https://tencentcs.com/5jXKFnBW
InvalidParameterValue.FunctionName	The function does not exist.
InvalidParameterValue.FunctionRequestId	Request ID error
InvalidParameterValue.FunctionType	FunctionType error
InvalidParameterValue.GitBranch	The format of GitBranch is incorrect.
InvalidParameterValue.GitDirectory	The format of GitDirectory is incorrect.
InvalidParameterValue.GitPassword	The format of GitPassword is incorrect.
InvalidParameterValue.GitUrl	The format of GitUrl is incorrect.
InvalidParameterValue.GitUserName	The format of GitUserName is incorrect.
InvalidParameterValue.Handler	Handler error.
InvalidParameterValue.ImageType	ImageType error
InvalidParameterValue.ImageUri	The input of imageUri is incorrect.
InvalidParameterValue.InlineZipFile	Invalid InlineZipFile.
InvalidParameterValue.InvokeType	The <code>InvokeType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.LayerName	Incorrect <code>LayerName</code> parameter.
InvalidParameterValue.Limit	Limit error.
InvalidParameterValue.LimitExceeded	The parameter exceeds the length limit.
InvalidParameterValue.MinCapacity	MinCapacity parameter input error.

Error Code	Description
InvalidParameterValue.Name	Incorrect <code>Name</code> parameter.
InvalidParameterValue.Namespace	Namespace error.
InvalidParameterValue.NamespaceInvalid	Incorrect Namespace. A namespace contains up to 64 characters of letters, digits, hyphens (-), and underscores (_).
InvalidParameterValue.Offset	Invalid offset.
InvalidParameterValue.Order	Order error.
InvalidParameterValue.OrderBy	The value of <code>OrderBy</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5j
InvalidParameterValue.OrderByby	Orderby error.
InvalidParameterValue.Param	The input parameter is not in the standard JSON
InvalidParameterValue.ProvisionTriggerCronConfigDuplicate	Cron expression of the scheduled action already exists
InvalidParameterValue.ProvisionTriggerName	TriggerName input parameter error
InvalidParameterValue.ProvisionTriggerNameDuplicate	TriggerName already exists
InvalidParameterValue.ProvisionType	ProvisionType input parameter error
InvalidParameterValue.Qualifier	Unsupported function version.
InvalidParameterValue.QueryVersion	Version parameter error
InvalidParameterValue.RegistryId	The value Enterprise Edition image ID [RegistryId] is incorrect.
InvalidParameterValue.RetCode	Invalid RetCode
InvalidParameterValue.RoutingConfig	The value of <code>RoutingConfig</code> does not conform to the specification. Please fix it and try again. For more information, please visit https://tencentcs.com/5j
InvalidParameterValue.Runtime	Runtime error.
InvalidParameterValue.SearchKey	The searchkey is not <code>Keyword</code> , <code>Tag</code> , or <code>Region</code>
InvalidParameterValue.SecretInfo	SecretInfo error

Error Code	Description
InvalidParameterValue.ServiceName	Invalid ServiceName.
InvalidParameterValue.Stamp	The value of <code>Stamp</code> does not meet the specific Please fix it and try again.
InvalidParameterValue.StartTime	The start time is incorrect.
InvalidParameterValue.StartTimeOrEndTime	You need to specify both the start time and the er
InvalidParameterValue.Status	The <code>Status</code> value does not conform to the sp Please fix it and try again.
InvalidParameterValue.TempCosObjectName	Invalid TempCosObjectName.
InvalidParameterValue.TrackingTarget	TrackingTarget parameter error
InvalidParameterValue.TriggerCronConfig	TriggerCronConfig input parameter error
InvalidParameterValue.TriggerCronConfigTimeInterval	The interval of triggering specified in TriggerCron smaller than the specified value.
InvalidParameterValue.TriggerDesc	TriggerDesc error.
InvalidParameterValue.TriggerName	TriggerName error.
InvalidParameterValue.TriggerProvisionedConcurrencyNum	TriggerProvisionedConcurrencyNum input param
InvalidParameterValue.Type	Type error.
InvalidParameterValue.ZipFile	A non-standard zip file was detected. Please recc and try again.
InvalidParameterValue.ZipFileBase64BinasciiError	Failed to Base64-decode the compressed file: <code>Incorrect padding</code> . Please fix it and try a
LimitExceeded.Alias	The number of aliases exceeds the upper limit.
LimitExceeded.Cdn	The Cdn usage exceeds the upper limit.
LimitExceeded.ContainerImageAccelerate	Reached the upper limit of function versions enab acceleration
LimitExceeded.ContainerImageAccelerateQuota	Reached the upper limit of function versions enab acceleration

Error Code	Description
LimitExceeded.Function	If the number of functions exceeds the upper limit apply for an increase by submitting a ticket .
LimitExceeded.FunctionOnTopic	The number of functions under the same topic exceeds the upper limit.
LimitExceeded.FunctionProvisionedConcurrencyMemory	The value of <code>FunctionProvisionedConcurrencyMemory</code> has reached the upper limit. You can submit a ticket to increase it at https://mc.tencent.com/dl7DzbBV .
LimitExceeded.FunctionReservedConcurrencyMemory	The function's reserved concurrency memory has reached the limit.
LimitExceeded.FunctionTotalProvisionedConcurrencyMemory	The value of <code>FunctionTotalProvisionedConcurrencyMemory</code> has reached the upper limit. You can submit a ticket to increase it at https://mc.tencent.com/dl7DzbBV .
LimitExceeded.FunctionTotalProvisionedConcurrencyNum	The total amount of provisioned concurrency of the function has exceeded the limit.
LimitExceeded.LayerVersions	The number of layer versions exceeds the upper limit.
LimitExceeded.Layers	
LimitExceeded.MaxCapacity	Reached the upper limit of dynamic scaling.
LimitExceeded.Memory	The memory exceeds the upper limit.
LimitExceeded.MsgTTL	The message retention period in the async retry configuration of the function exceeds the limit.
LimitExceeded.Namespace	If the number of namespaces exceeds the upper limit, you can apply for an increase by submitting a ticket .
LimitExceeded.Offset	Offset exceeds the upper limit.
LimitExceeded.ProvisionTriggerAction	The number of provisioned concurrency specified in the scheduled action is too large.
LimitExceeded.ProvisionTriggerInterval	The interval of triggering is too short.
LimitExceeded.Quota	Reached the upper limit of quota

Error Code	Description
LimitExceeded.RetryNum	The number of retry attempts in the async retry configuration of the function exceeds the limit.
LimitExceeded.Timeout	Timeout exceeds the upper limit.
LimitExceeded.TotalConcurrencyMemory	The account concurrency memory has exceeded
LimitExceeded.Trigger	If the number of triggers exceeds the upper limit, apply for an increase by submitting a ticket .
LimitExceeded.UserTotalConcurrencyMemory	The value of <code>UserTotalConcurrencyMemory</code> reached the upper limit. You can submit a ticket to it at https://tencentcs.com/7Fixwt63 .
OperationDenied.AccountIsolate	This account has been isolated.
OperationDenied.AccountNotExists	
ResourceInUse.Alias	The alias is in use.
ResourceInUse.Cdn	Cdn is in use.
ResourceInUse.Cmq	Cmq is in use.
ResourceInUse.Cos	Cos is in use.
ResourceInUse.FunctionName	This FunctionName already exists.
ResourceInUse.LayerVersion	The layer version is in use.
ResourceInUse.Namespace	This Namespace already exists.
ResourceInUse.Trigger	This TriggerName already exists.
ResourceInUse.TriggerName	This TriggerName already exists.
ResourceInsufficient.COS	Insufficient COS resources.
ResourceNotFound.Alias	The alias does not exist.
ResourceNotFound.AsyncEvent	The specified <code>AsyncEvent</code> was not found. Please create it and try again.
ResourceNotFound.AttachedTagKeyNotFound	The tag key does not exist.
ResourceNotFound.Cdn	Cdn does not exist.

Error Code	Description
ResourceNotFound.Ckafka	Ckafka does not exist.
ResourceNotFound.Cmq	Cmq does not exist.
ResourceNotFound.Cos	Cos does not exist.
ResourceNotFound.Function	The function does not exist.
ResourceNotFound.FunctionName	The function does not exist.
ResourceNotFound.FunctionVersion	The function version does not exist.
ResourceNotFound.ImageConfig	Failed to find the specified <code>ImageConfig</code> . Please try it first.
ResourceNotFound.Layer	The layer does not exist.
ResourceNotFound.LayerVersion	The layer version does not exist.
ResourceNotFound.Namespace	Namespace does not exist.
ResourceNotFound.Qualifier	The version does not exist.
ResourceNotFound.RoleCheck	The role does not exist.
ResourceNotFound.Timer	Timer does not exist.
ResourceNotFound.TotalConcurrencyMemory	The concurrency memory quota resource was not found.
ResourceNotFound.Trigger	The trigger does not exist.
ResourceNotFound.Version	The version does not exist.
ResourceUnavailable.InsufficientBalance	Your balance is insufficient. Please top up first.
UnauthorizedOperation.CAM	CAM authentication failed.
UnauthorizedOperation.CodeSecret	You do not have permissions to access the code.
UnauthorizedOperation.CreateTrigger	You do not have permissions.
UnauthorizedOperation.DeleteFunction	Unauthorized operation.
UnauthorizedOperation.DeleteTrigger	You do not have permissions.
UnauthorizedOperation.NotMC	This API is not called from the console.

Error Code	Description
UnauthorizedOperation.Region	Region error.
UnauthorizedOperation.Role	Not authorized to access your COS resources.
UnauthorizedOperation.TempCosAppid	The <code>Appid</code> of TempCos is not consistent with of the request account.
UnauthorizedOperation.UpdateFunctionCode	Operation failed.
UnauthorizedOperation.UpdateTriggerStatus	You are not authorized for the operation.
UnsupportedOperation.AliasBind	The resource is bound to an alias, and the current cannot be performed. Please unbind the alias and
UnsupportedOperation.Cdn	Cdn is not supported.
UnsupportedOperation.Cos	Cos operation is not supported.
UnsupportedOperation.EipFixed	The specified EipFixed does not exist.
UnsupportedOperation.NotSupportRegion	Unsupported region.
UnsupportedOperation.PublishVersion	
UnsupportedOperation.Region	This region is not supported.
UnsupportedOperation.Trigger	Trigger operation is not supported.
UnsupportedOperation.UpdateFunctionEventInvokeConfig	The specified configuration is not supported. Please and try again.
UnsupportedOperation.VpcConfig	The specified VpcConfig does not exist.

函数和层的状态说明

最近更新时间：2021-01-12 19:40:42

当使用 [云 API](#) 管理函数（增、删、改、查）时，由于接口异步，首先需要查询函数当前状态，然后进行下一步操作。

函数状态

创建、更新、删除、发布函数时，函数存在以下状态：

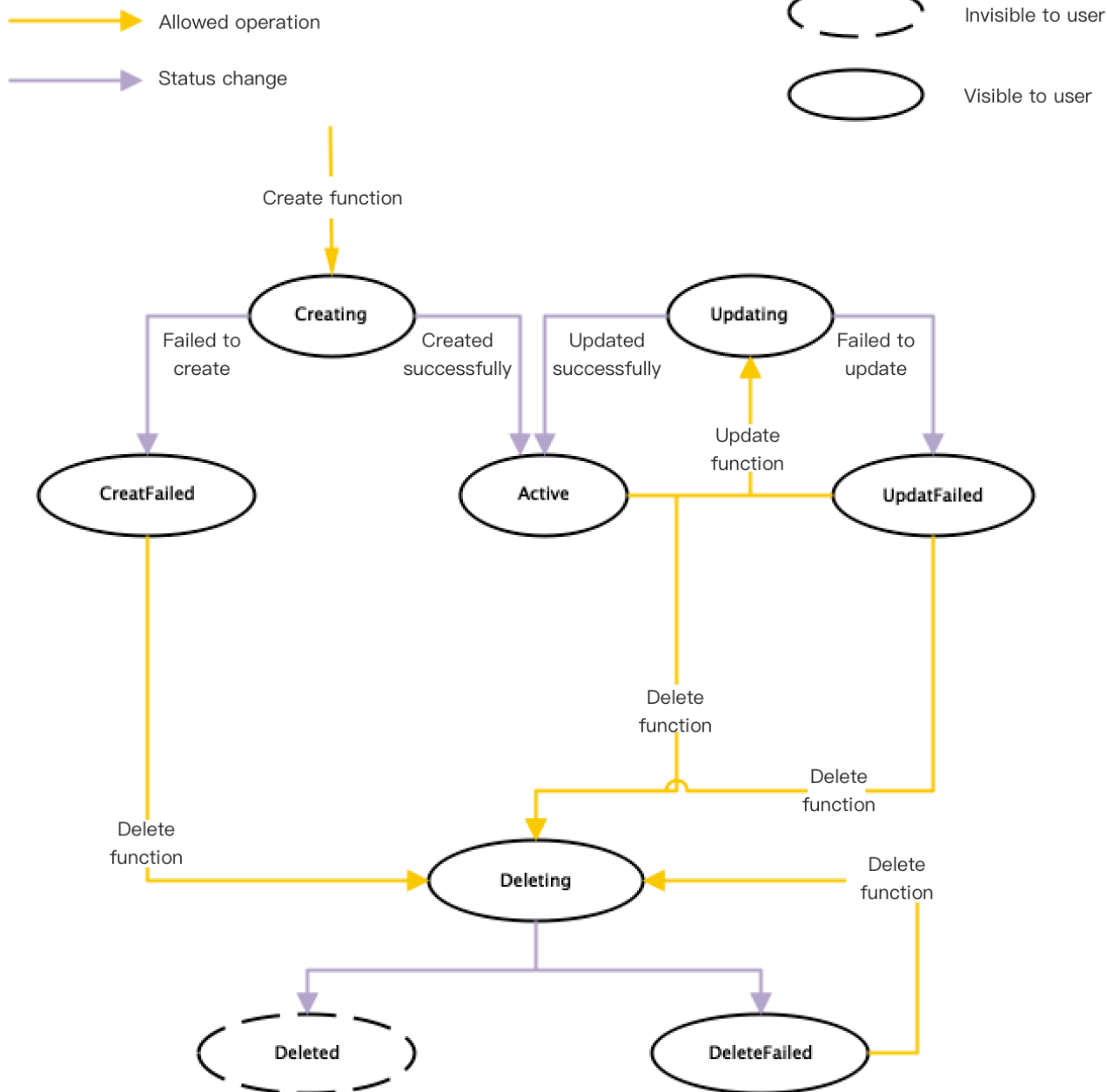
Status（接口返回 Status 值）	说明
Creating	函数创建中
CreateFailed	函数创建失败（如果已生成函数信息，则可以删除后再创建）
Active	函数可用
Updating	函数更新中
UpdateFailed	函数更新失败
Publishing	函数版本发布中
PublishFailed	函数版本发布失败
Deleting	函数删除中
DeleteFailed	函数删除失败

⚠ 注意：

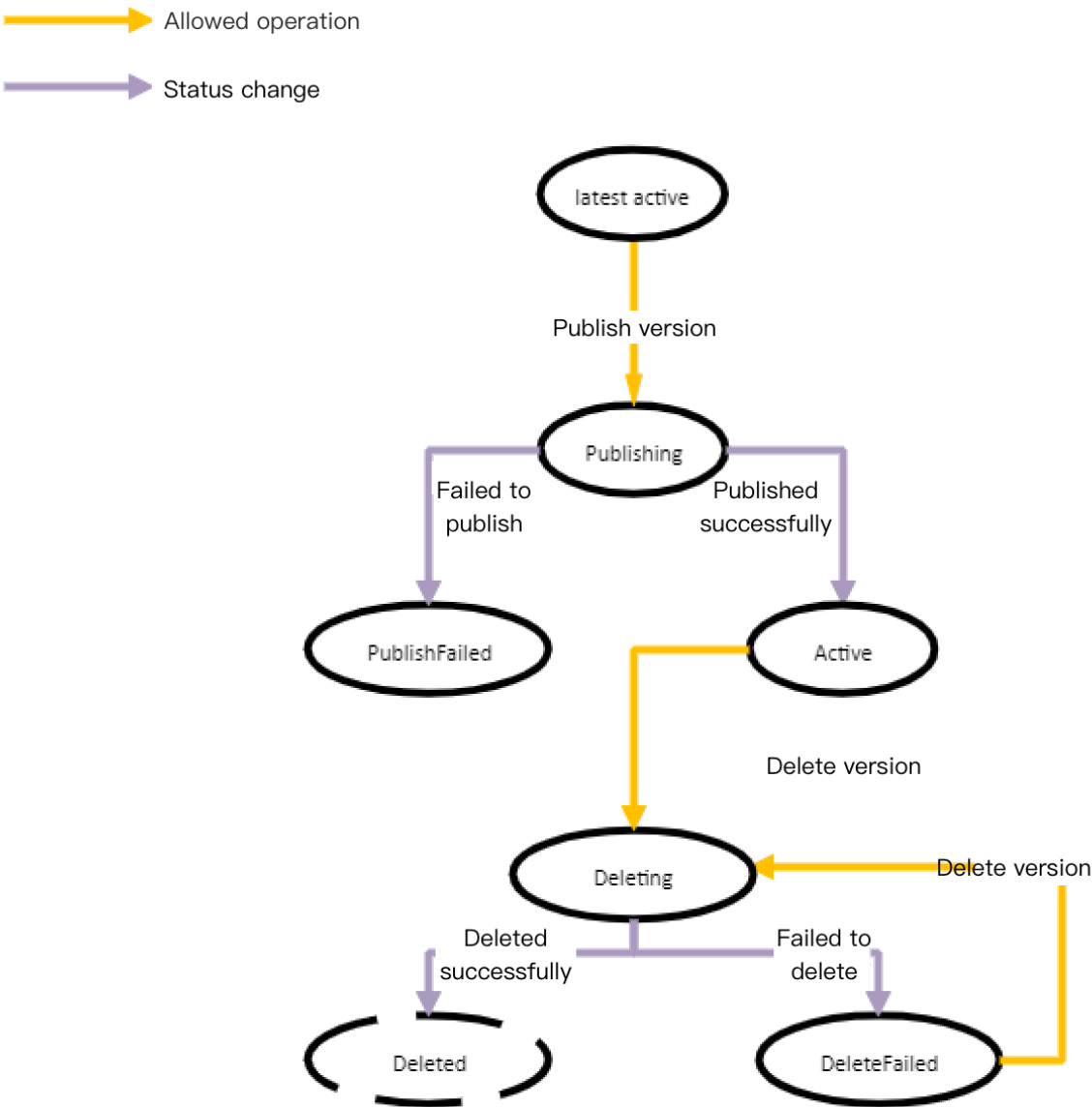
函数发布、更新失败不会影响已正常发布的函数版本的使用，调用函数时会正常调用更新之前的函数内容。

函数创建及更新的状态扭转。如下图所示：

latest



函数发版的状态扭转。如下图所示：



函数计费状态

AvailableStatus（接口返回 AvailableStatus 值）	说明
Available	可用状态
InsufficientBalance	因欠费导致函数不可用

层（Layer）状态

Status（接口返回 Status 值）	说明
Publishing	层发布中
PublishFailed	层发布失败
Active	层可用
Deleting	层删除中
DeleteFailed	层删除失败
Deleted	层已删除