

低代码互动课堂

API 文档

产品文档



腾讯云

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API 文档

History

最近更新时间：2024-04-01 19:55:35

Release 10

Release time: 2024-04-01 19:55:32

Release updates:

Improvement to existing documentation.

New data structures:

- [CustomMsgContent](#)

Modified data structures:

- [DocumentInfo](#)
 - New members: Preview
 - **Modified members:** DocumentId, DocumentUrl, DocumentName, Owner, SdkAppId, Permission, TranscodeResult, TranscodeType, TranscodeProgress, TranscodeState, TranscodeInfo, DocumentType, DocumentSize, UpdateTime, Pages, Width, Height, Cover
- [EventDataInfo](#)
 - New members: Device, Duration, RecordSize, RecordUrl
 - **Modified members:** RoomId, UserId
- [MemberRecord](#)
 - New members: CurrentState
 - **Modified members:** IPAddress, Location, Device, PerMemberMicCount, PerMemberMessageCount, Role, GroupId, SubGroupId, Stage
- [MessageItem](#)
 - New members: CustomMessage
 - **Modified members:** MessageType, TextMessage, ImageMessage
- [UserInfo](#)
 - New members: OriginId
 - **Modified members:** SdkAppId, UserId, Name, Avatar

Release 9

Release time: 2024-04-01 19:33:37

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDocument](#)
 - New input parameters:AutoHandleUnsupportedElement
- [DescribeRoom](#)
 - New input parameters:RTMPStreamingURL
 - New output parameters:AudienceType, InteractionMode, VideoOrientation, IsGradingRequiredPostClass, RoomType, VideoDuration, EndDelayTime, LiveType, RecordLiveUrl, EnableAutoStart, RecordBackground, RTMPStreamingURL, RecordScene, RecordLang
- [DescribeUser](#)
 - New output parameters:OriginId
- [GetRooms](#)
 - New input parameters:Status
- [ModifyApp](#)
 - New input parameters:TransferId, TransferUrl

Modified data structures:

- [RoomInfo](#)
 - New members:InteractionMode, VideoOrientation, IsGradingRequiredPostClass, RoomType, EndDelayTime, LiveType, RecordLiveUrl, EnableAutoStart, RecordBackground, RecordScene, RecordLang

Release 8

Release time: 2024-04-01 16:25:07

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateRoom](#)

- New input parameters:InteractionMode, VideoOrientation, IsGradingRequiredPostClass, RoomType, EndDelayTime, LiveType, RecordLiveUrl, EnableAutoStart, RecordBackground, RecordScene, RecordLang

Modified data structures:

- [RoomItem](#)
 - New members:InteractionMode, VideoOrientation, IsGradingRequiredPostClass, RoomType, EndDelayTime, LiveType, RecordLiveUrl, EnableAutoStart, RecordBackground, RecordScene, RecordLang
 - **Modified members:** Name, RoomId, Status, StartTime, EndTime, RealStartTime, RealEndTime, Resolution, MaxRTCMember, ReplayUrl, RecordUrl, MaxMicNumber, EnableDirectControl

Release 7

Release time: 2023-06-21 15:22:22

Release updates:

Improvement to existing documentation.

New APIs:

- [KickUserFromRoom](#)

Modified APIs:

- [CreateRoom](#)
 - New input parameters:EnableDirectControl
- [DescribeRoom](#)
 - New output parameters:EnableDirectControl
- [ModifyRoom](#)
 - New input parameters:EnableDirectControl

Modified data structures:

- [RoomInfo](#)
 - New members:EnableDirectControl
- [RoomItem](#)
 - New members:MaxMicNumber, EnableDirectControl

Release 6

Release time: 2023-04-28 15:58:51

Release updates:

Improvement to existing documentation.

New APIs:

- [BatchDescribeDocument](#)
- [DeleteSupervisor](#)
- [DescribeDocuments](#)
- [EndRoom](#)
- [StartRoom](#)

Modified data structures:

- [DocumentInfo](#)
 - New members:Pages, Width, Height, Cover
- [MemberRecord](#)
 - New members:Role, GroupId, SubGroupId, Stage

Release 5

Release time: 2023-04-20 15:29:08

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeAnswerList](#)
- [DescribeQuestionList](#)
- [DescribeSupervisors](#)
- [GetRooms](#)

Modified APIs:

- [CreateRoom](#)
 - New input parameters:TurnOffMic, RTCAudienceNumber, AudienceType

New data structures:

- [AnswerInfo](#)

- [AnswerStat](#)
- [QuestionInfo](#)
- [RoomItem](#)

Release 4

Release time: 2023-04-04 14:45:04

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteAppCustomContent](#)
- [DescribeDeveloper](#)
- [GetRoomEvent](#)

Modified APIs:

- [CreateSupervisor](#)
 - New input parameters:SdkAppId, Users

New data structures:

- [EventDataInfo](#)
- [EventInfo](#)

Release 3

Release time: 2023-03-24 16:11:40

Release updates:

Improvement to existing documentation.

New APIs:

- [GetRoomMessage](#)

New data structures:

- [MessageItem](#)

- [MessageList](#)

Release 2

Release time: 2023-03-02 16:05:11

Release updates:

Improvement to existing documentation.

New APIs:

- [AddGroupMember](#)
- [BatchAddGroupMember](#)
- [BatchCreateGroupWithMembers](#)
- [BatchCreateRoom](#)
- [BatchDeleteGroupMember](#)
- [BatchDeleteRecord](#)
- [BatchRegister](#)
- [CreateGroupWithMembers](#)
- [CreateGroupWithSubGroup](#)
- [DeleteDocument](#)
- [DeleteGroup](#)
- [DeleteGroupMember](#)
- [DeleteRecord](#)
- [DescribeCurrentMemberList](#)
- [DescribeDocument](#)
- [DescribeDocumentsByRoom](#)
- [DescribeGroup](#)
- [DescribeGroupList](#)
- [DescribeGroupMemberList](#)
- [DescribeSdkAppIdUsers](#)
- [GetWatermark](#)
- [ModifyGroup](#)
- [ModifyRoom](#)
- [ModifyUserProfile](#)
- [SetWatermark](#)

Modified APIs:

- [CreateRoom](#)
 - New input parameters:GroupId
- [DescribeRoom](#)
 - New output parameters:Status, GroupId
- [DescribeRoomStatistics](#)
 - New output parameters:RealStartTime, RealEndTime, MessageCount, MicCount
- [ModifyApp](#)
 - New input parameters:CallbackKey

New data structures:

- [BackgroundPictureConfig](#)
- [BatchUserInfo](#)
- [BatchUserRequest](#)
- [DocumentInfo](#)
- [GroupBaseInfo](#)
- [GroupInfo](#)
- [RoomInfo](#)
- [TextMarkConfig](#)
- [UserInfo](#)
- [WatermarkConfig](#)

Modified data structures:

- [MemberRecord](#)
 - New members:IPAddress, Location, Device, PerMemberMicCount, PerMemberMessageCount

Release 1

Release time: 2023-01-11 17:55:55

Release updates:

Improvement to existing documentation.

New APIs:

- [BindDocumentToRoom](#)
- [CreateDocument](#)
- [CreateRoom](#)
- [CreateSupervisor](#)

-
- [DeleteRoom](#)
 - [DescribeRoom](#)
 - [DescribeRoomStatistics](#)
 - [DescribeUser](#)
 - [LoginOriginId](#)
 - [LoginUser](#)
 - [ModifyApp](#)
 - [RegisterUser](#)
 - [SetAppCustomContent](#)
 - [UnbindDocumentFromRoom](#)

New data structures:

- [AppCustomContent](#)
- [MemberRecord](#)

Introduction

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Low-Code Interactive Classroom (LCIC) SDK is an SDK product that provides enterprises and schools with low-code real-time audio/video solutions. By integrating the underlying technical capabilities of Tencent Cloud, the SDK enables modular design of online interactive classroom features. This allows enterprises and schools to flexibly expand classroom features and quickly connect with their own business systems, greatly reducing the development threshold, easily realizing complex application logic, and providing enterprises and schools with high stability and cost-effective online interactive classroom services.

API Category

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Application Configuration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
SetAppCustomContent	Sets the custom content of an application.	20
DeleteAppCustomContent	Deletes custom elements	20
ModifyApp	Modifies an application.	20
GetWatermark	Gets watermark settings	20
SetWatermark	Configures watermarks	20
CreateSupervisor	Creates a spectator.	20
DeleteSupervisor	Deletes spectators	20
DescribeSupervisors	Gets the spectators of a room	20

User Login APIs

API Name	Feature	Frequency Limit (maximum requests per second)
LoginUser	Logs in.	20
LoginOriginId	Logs in with an origin account.	20

Recording Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteRecord	Deletes the recording files of a specific	20

	room	
BatchDeleteRecord	Deletes the recordings of multiple rooms	20

Courseware Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateDocument	Creates a document.	20
DescribeDocument	Gets the information of a document	20
BindDocumentToRoom	Binds a document to a room.	20
BatchDescribeDocument	Gets courseware information	20
DescribeDocuments	Queries courseware information	20
UnbindDocumentFromRoom	Unbinds a document from a room.	20
DescribeDocumentsByRoom	Gets the documents of a specific room	20
DeleteDocument	Deletes a document	20

Room Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateRoom	Creates a room.	20
BatchCreateRoom	Creates multiple rooms	20
DescribeCurrentMemberList	Gets the user list of a room	20
DescribeRoom	Gets room information.	50
DescribeRoomStatistics	Obtains the statistics of a room.	20

GetRoomEvent	Gets the events of a room	20
DescribeAnswerList	Gets the answers to a quiz question in a room	20
DescribeQuestionList	Gets the quiz details of a room	20
GetRoomMessage	Gets the message history of a room	20
GetRooms	Gets the room list	20
ModifyRoom	Modifies a room	20
DeleteRoom	Deletes a room.	20
EndRoom	Ends a room	20
StartRoom	Starts a room	20
KickUserFromRoom	Removes a user from the room	20

User Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
RegisterUser	Registers a user.	20
BatchRegister	Registers multiple users	20
DescribeSdkAppIdUsers	Gets the user list of an application	20
DescribeUser	Obtains user profile.	20
ModifyUserProfile	Modifies a user profile	20

Group Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AddGroupMember	Adds users to a group	20

BatchAddGroupMember	Adds users to multiple groups	20
BatchCreateGroupWithMembers	Creates multiple groups	20
BatchDeleteGroupMember	Removes users from multiple groups	20
CreateGroupWithMembers	Creates a group	20
CreateGroupWithSubGroup	Merges groups	20
DeleteGroup	Deletes groups	20
DeleteGroupMember	Removes users from a group	20
DescribeGroup	Gets the details of a group	20
DescribeGroupList	Queries groups	20
DescribeGroupMemberList	Gets the members of a group	20
ModifyGroup	Modifies a group	20

Developer APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDeveloper	Gets developer information	20

Making API Requests

Request Structure

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1. Service Address

The API supports access from either a nearby region (at `lcic.tencentcloudapi.com`) or a specified region (at `lcic.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 "`lcic.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>lcic.tencentcloudapi.com</code>
South China (Guangzhou)	<code>lcic.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>lcic.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>lcic.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>lcic.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>lcic.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>lcic.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>lcic.ap-singapore.tencentcloudapi.com</code>
Southeast Asia (Bangkok)	<code>lcic.ap-bangkok.tencentcloudapi.com</code>

South Asia (Mumbai)	lcic.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	lcic.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	lcic.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	lcic.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	lcic.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	lcic.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	lcic.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 r 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 y work with belongs. For values supported for an API, see the description c parameter <code>Region</code> in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relatec 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 for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter <code>Version</code> in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is 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=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&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
South Asia (Mumbai)	ap-mumbai

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	<p>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>.</p> <p>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.</p>
CanonicalHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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). <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>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.</p>
SignedHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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 (;). <p>The value in this example is <code>content-type;host</code></p>
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 pay
of the HTTP request, performing hexadecimal encoding, and finally converting the encc
string to lowercase letters. For GET requests, RequestPayload is always an empt
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 TC3-HMAC-SHA256 .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter X-TC-Timestamp in request header, which is the UNIX timestamp of the current time in seconds, such as 1551113065 in this example.
CredentialScope	Scope of the credential in the format of Date/service/tc3_request , 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 ; service is the product name, which should match the domain name of the product called. The calculation result in this example is 2018-08-25/cvm/tc3_request .

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., Gu5t9xGARNpq86cd98joQYCN3*****.
Date	The Date field information in Credential, such as 2019-02-25 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&InstanceIds.0=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.utcnow().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:". $hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$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 + "' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + "' \
+ ' -H "X-TC-Action: ' + action + "' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + "' \
+ ' -H "X-TC-Version: ' + version + "' \
+ ' -H "X-TC-Region: ' + region + "' \
+ " -d '" + payload + "'
    
```

DotNet

```

using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
    public static string SHA256Hex(string s)
    {
        using (SHA256 algo = SHA256.Create())
        {
            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
            StringBuilder builder = new StringBuilder();
            for (int i = 0; i < hashbytes.Length; ++i)
            {
                builder.Append(hashbytes[i].ToString("x2"));
            }
            return builder.ToString();
        }
    }

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))
        {
            return mac.ComputeHash(msg);
        }
    }

    public static Dictionary<String, String> BuildHeaders(string secretid,
        string secretkey, string service, string endpoint, string region,
        string action, string version, DateTime date, string requestPayload)
    {
        string datestr = date.ToString("yyyy-MM-dd");
        DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
        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 OPENSSSL_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 OPENSSSL_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=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&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
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($params);
// 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

最近更新时间：2024-04-01 19:34:13

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.
<code>MissingParameter</code>	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.

User Login APIs

LoginUser

最近更新时间：2024-04-01 19:34:17

1. API Description

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

This API is used to log 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: LoginUser.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
UserId	Yes	String	User ID obtained during registration

3. Output Parameters

Parameter Name	Type	Description
UserId	String	User ID

Token	String	Login status token returned after successful login or registration. The token is valid for seven days.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Logging in.

Input Example

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

{
  "UserId": "xxx"
}
```

Output Example

```
{
  "Response": {
    "Token": "xx",
    "UserId": "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 Node.js](#)
- [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.
ResourceNotFound.User	The user does not exist.

LoginOriginId

最近更新时间：2024-04-01 19:34:18

1. API Description

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

This API is used to log in with an origin account, which is the `originId` entered during registration.

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: LoginOriginId.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	LCIC SdkAppId
OriginId	Yes	String	User's ID in the customer system, which should be unique under the same application

3. Output Parameters

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

UserId	String	User ID
Token	String	Login status token returned after successful login or registration. The token is valid for seven days.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Logging in with an origin account.

Input Example

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

{
  "SdkAppId": 1234657,
  "OriginId": "xx"
}
```

Output Example

```
{
  "Response": {
    "UserId": "2CvDgjRNjylAsBZB4iZc0F6koXe",
    "Token": "3o32r0j134m13aa0uva0jvj90qj4j004198",
    "RequestId": "213das"
  }
}
```

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 Node.js](#)
- [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.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.User	The user does not exist.

Room Management APIs

CreateRoom

最近更新时间：2024-04-01 19:34:27

1. API Description

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

This API is used to create a room.

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

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: CreateRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
Name	Yes	String	Room name
StartTime	Yes	Integer	Reserved room start time, in UNIX timestamp format
EndTime	Yes	Integer	Reserved room end time, in UNIX timestamp format
SdkAppId	Yes	Integer	LCIC SdkAppId

Resolution	Yes	Integer	Resolution. Valid values: 1: SD; 2: HD; 3: FHD
MaxMicNumber	Yes	Integer	Maximum number of mic-on users (excluding teachers). Value range: [0, 16]
SubType	Yes	String	The room subtype. Valid values: videodoc: Document + Video; video: Video only.
TeacherId	No	String	The user ID of the teacher. User IDs are returned by the user registration APIs. The user specified will have teacher permissions in the room created.
AutoMic	No	Integer	Whether to automatically turn the mic on when the user enters a room. Valid values: 0: No (default value); 1: Yes.
TurnOffMic	No	Integer	Whether to disconnect communication after audio/video permissions are revoked. Valid values: 0 (default): Yes; 1 : No.
AudioQuality	No	Integer	Whether to enable the high audio quality mode. Valid values: 0: No (default value); 1: Yes.
DisableRecord	No	Integer	Whether to disable auto recording. Valid values: 0: No (default); 1: Yes. If this parameter is 0, recording will start when the class starts and stops when the class ends.
Assistants.N	No	Array of String	The user IDs of the teaching assistants. User IDs are returned by the user registration APIs. The users specified will have teaching assistant permissions in the room created.
RTCAudienceNumber	No	Integer	The number of RTC users.
AudienceType	No	Integer	The audience type.
RecordLayout	No	Integer	Recording layout
GroupId	No	String	The ID of the group to bind. If you specify this parameter, only members of the group can enter this room.
EnableDirectControl	No	Integer	Whether the teacher/teaching assistant can control students' cameras/microphones without the students' consent. Valid values: 0 (default): No (consent required) 1 : Yes (no consent required)

InteractionMode	No	Integer	Turn on focus mode. 0 Watch all character audio and video (default) 1 Watch only teachers and assistants
VideoOrientation	No	Integer	Horizontal and vertical screen. 0: Horizontal screen (default); 1: Vertical screen , currently only support mobile video type
IsGradingRequiredPostClass	No	Integer	Enable after-class grading. 0: not on (default) 1: on
RoomType	No	Integer	Room Type: 0 Small Classroom(default); 1 Lecture Hall(public class)
EndDelayTime	No	Integer	Drag class time: unit: minutes. 0: no limit (default), -1: can't drag class, greater than 0: the time of dragging class. maximum value: 120 minutes.
LiveType	No	Integer	Live type: 0 regular (default) 1 Simulated Live
RecordLiveUrl	No	String	Simulated Live link
EnableAutoStart	No	Integer	Whether to start the lesson automatically: 0 not automatic lesson (default) 1 automatic lesson live_type=1 is valid when
RecordBackground	No	String	Recorded file background image, support png, jpg, jpeg, bmp format, does not support transparent channel for the time being
RecordScene	No	String	Record customized scene, only recordlayout=9 this parameter is valid, the data content for the user-defined scene parameters, data format for the json key-value pairs, where the key-value pairs of the value for the string type.

3. Output Parameters

Parameter Name	Type	Description
RoomId	Integer	Room ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a room

This example shows you how to create a classroom.

Input Example

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

{
  "Name": "abc",
  "StartTime": 1,
  "EndTime": 1,
  "TeacherId": "abc",
  "SdkAppId": 1,
  "Resolution": 1,
  "MaxMicNumber": 1,
  "AutoMic": 1,
  "TurnOffMic": 1,
  "AudioQuality": 1,
  "SubType": "abc",
  "DisableRecord": 1,
  "Assistants": [
    "abc"
  ],
  "RTCAudienceNumber": 1,
  "AudienceType": 1,
  "RecordLayout": 1,
  "GroupId": "abc",
  "EnableDirectControl": 0
}
```

Output Example

```
{
  "Response": {
    "RoomId": 1,
    "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.

- [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 Node.js](#)
- [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.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.RequestTimedOut	Request timed out.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.RoomTypeInvalid	
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

InvalidParameter.StartTime	The start time cannot be earlier than the current time.
ResourceInsufficient	Insufficient resource.
ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.User	The user does not exist.

BatchCreateRoom

最近更新时间：2024-04-01 19:34:28

1. API Description

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

This API is used to create multiple rooms at a time.

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: BatchCreateRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
RoomInfos.N	Yes	Array of RoomInfo	The information of the rooms to create.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RoomIds	Array of Integer	The IDs of the rooms created, which are in the same order as they are passed in.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating multiple classrooms at a time

This example shows you how to create multiple classrooms at a time.

Input Example

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

{
  "SdkAppId": 1,
  "RoomInfos": [
    {
      "Name": "abc",
      "StartTime": 1,
      "EndTime": 1,
      "TeacherId": "abc",
      "Resolution": 1,
      "MaxMicNumber": 1,
      "AutoMic": 1,
      "TurnOffMic": 1,
      "AudioQuality": 1,
      "SubType": "abc",
      "DisableRecord": 1,
      "Assistants": [
        "abc"
      ],
      "RTCAudienceNumber": 1,
      "AudienceType": 1,
    }
  ]
}
```

```
"RecordLayout": 1,  
"GroupId": "abc",  
"EnableDirectControl": 1  
}  
]  
}
```

Output Example

```
{  
  "Response": {  
    "RoomIds": [  
      301234567  
    ],  
    "RequestId": "213das"  
  }  
}
```

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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.ImageArgInvalid	Image parameter error.
FailedOperation.OriginIdExists	The user origin ID already exists.
FailedOperation.RoomNotEnd	The class has not ended.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit is reached.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.

ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DescribeCurrentMemberList

最近更新时间：2024-04-01 19:34:25

1. API Description

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

This API is used to get the user list of a room. This API will not work if a room has ended or expired.

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

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: DescribeCurrentMemberList.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
Page	Yes	Integer	The page to return records from. Pagination starts from 1.
Limit	Yes	Integer	The maximum number of records per page. The value of this parameter cannot exceed 1000.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of records.
MemberRecords	Array of MemberRecord	The user list.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the user list of a room

This example shows you how to get the user list of a room. This API will not work if a room has ended or expired.

Input Example

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

{
  "RoomId": 123,
  "Page": 1,
  "Limit": 10
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "RequestId": "xx",
    "MemberRecords": [
      {
        "UserName": "xx",
        "Mic": 1,
        "UserId": "xx",

```

```
"Rewords": 1,
"AnswerQuestions": 1,
"HandUps": 1,
"Camera": 1,
"FirstJoinTimestamp": 1,
"LastQuitTimestamp": 1,
"PresentTime": 1,
"Silence": 1
}
]
}
}
```

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
FailedOperation	Operation failed.

FailedOperation.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
InternalError	Internal error.
ResourceNotFound.Room	The room does not exist.

DescribeRoom

最近更新时间：2024-04-01 19:34:24

1. API Description

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

This API is used to get room information.

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

A maximum of 50 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: DescribeRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	Room ID
RTMPStreamingURL	No	Integer	Request RTMP stream link, 0: no, 1: yes, default is 0.

3. Output Parameters

Parameter Name	Type	Description

Name	String	Room name
StartTime	Integer	Reserved room start time, in UNIX timestamp format
EndTime	Integer	Reserved room end time, in UNIX timestamp format
TeacherId	String	Teacher ID
SdkAppId	Integer	LCIC SdkAppId
AudienceType	Integer	Watch type. Can have the following values: 1 interactive viewing 2 standard viewing
Resolution	Integer	Resolution. Valid values: 1: SD; 2: HD; 3: FHD
MaxMicNumber	Integer	Maximum number of mic-on users (excluding teachers). Value range: [0, 16]
AutoMic	Integer	Whether to automatically turn the mic on when the user enters a room. Valid values: 0: No (default value); 1: Yes.
AudioQuality	Integer	Whether to enable the high audio quality mode. Valid values: 0: No (default value); 1: Yes.
SubType	String	The room subtype. Valid values: videodoc: Document + Video; video: Video only.
DisableRecord	Integer	Whether to disable auto recording. Valid values: 0: No (default); 1: Yes. If this parameter is 0, recording will start when the class starts and stops when the class ends.
Assistants	Array of String	Assistant ID list Note: This field may return null, indicating that no valid values can be obtained.
RecordUrl	String	Recording URL. This parameter exists only after a room is ended. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The class status. 0: The class has not started. 1: The class has started. 2: The class ended. 3: The class expired. Note: This field may return null, indicating that no valid values can be obtained.
GroupId	String	Note: This field may return null, indicating that no valid values can be obtained.
EnableDirectControl	Integer	Whether the students' consent is required to control their cameras/microphones.

InteractionMode	Integer	Turn on focus mode. 0 Watch all character audio and video (default) 1 Watch only teachers and teaching assistants
VideoOrientation	Integer	Horizontal and vertical screen. 0: Horizontal screen to open broadcast (default); 1: Vertical screen to open broadcast, currently only support mobile pure video type
IsGradingRequiredPostClass	Integer	Whether the room is enabled for grading after the lesson. 0: not enabled 1: enabled
RoomType	Integer	Room Type: 0 Small Classroom(default); 1 Lecture Hall(public class)
VideoDuration	Integer	Recording Duration
EndDelayTime	Integer	Drag class time: unit minutes, 0 is unlimited (default), -1 is can't drag the class, greater than 0 is the time of dragging the class, the maximum value of 120 minutes
LiveType	Integer	Live type: 0 regular (default) 1 Simulated Live
RecordLiveUrl	String	Simulated Live link
EnableAutoStart	Integer	Whether to start the lesson automatically: 0 not automatic lesson (default) 1 automatic lesson live_type=1 is valid
RecordBackground	String	Recorded file background image, support png, jpg, jpeg, bmp format, does not support transparent channel for the time being
RTMPStreamingURL	String	RTMP stream link
RecordScene	String	Record customized scene, only recordlayout=9 this parameter is valid
RecordLang	String	Record customized language, only when recordlayout=9, this parameter is valid
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the details of a room

This example shows you how to get the details of a classroom.

Input Example

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

{
  "RoomId": 1
}
```

Output Example

```
{
  "Response": {
    "AutoMic": 1,
    "RecordUrl": "https://example.com/test.mp4",
    "Name": "test",
    "AudioQuality": 1,
    "MaxMicNumber": 1,
    "SubType": "videodoc",
    "SdkAppId": 1,
    "RequestId": "test",
    "StartTime": 1,
    "TeacherId": "test",
    "Assistants": [
      "test"
    ],
    "EndTime": 1,
    "Resolution": 1,
    "DisableRecord": 1,
    "Status": 0,
    "EnableDirectControl": 0,
    "GroupId": "afdg"
  }
}
```

Example2 示例

获取房间信息

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeRoom
<common request parameters>

{
  "RoomId": 331450358
}
```

Output Example

```
{
  "Response": {
    "Assistants": [],
    "AudienceType": 1,
    "AudioQuality": 0,
    "AutoMic": 0,
    "DisableRecord": 0,
    "EnableDirectControl": 0,
    "EndTime": 1687943391,
    "GroupId": "",
    "InteractionMode": 1,
    "IsGradingRequiredPostClass": 0,
    "MaxMicNumber": 2,
    "Name": "测试1",
    "RecordUrl": "",
    "RequestId": "a8dea9b9-5172-4c01-a53d-5a53437f7fdf",
    "Resolution": 1,
    "RoomType": 1,
    "SdkAppId": 3923193,
    "StartTime": 1687943339,
    "Status": 0,
    "SubType": "video",
    "TeacherId": "202bjPEXxStIac3NC9kFH3mHeBC",
    "VideoOrientation": 1,
    "VideoDuration": 0
  }
}
```

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](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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.
InternalError	Internal error.
ResourceNotFound.Room	The room does not exist.

DescribeRoomStatistics

最近更新时间：2024-04-01 19:34:23

1. API Description

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

This API is used to obtain the statistics of a room. It can be called only after the room is ended.

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

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: DescribeRoomStatistics.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	Room ID
Page	Yes	Integer	Current page in pagination, which starts from 1.
Limit	Yes	Integer	Number of data entries to return per page. Maximum value: 1000

3. Output Parameters

Parameter Name	Type	Description
PeakMemberNumber	Integer	Peak number of online members
MemberNumber	Integer	Accumulated number of online members
Total	Integer	Total number of records, including members who entered the room and members who should attend the class but did not
MemberRecords	Array of MemberRecord	Member record list
RealStartTime	Integer	The actual start time of the room, in Unix timestamp, accurate to seconds. Note: This field may return null, indicating that no valid values can be obtained.
RealEndTime	Integer	The actual end time of the room, in Unix timestamp, accurate to seconds. Note: This field may return null, indicating that no valid values can be obtained.
MessageCount	Integer	The total message count of the room.
MicCount	Integer	The total number of mic-on students in the room.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the statistics of a room

This example shows you how to get the statistics of a room.

Input Example

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

{
  "RoomId": 1,
```



```
"Page": 1,  
"Limit": 1  
}
```

Output Example

```
{  
  "Response": {  
    "PeakMemberNumber": 1,  
    "MemberNumber": 1,  
    "Total": 1,  
    "MemberRecords": [  
      {  
        "UserId": "xx",  
        "UserName": "xx",  
        "PresentTime": 1,  
        "Camera": 1,  
        "Mic": 1,  
        "Silence": 1,  
        "AnswerQuestions": 1,  
        "HandUps": 1,  
        "FirstJoinTimestamp": 1,  
        "LastQuitTimestamp": 1,  
        "Rewords": 1,  
        "IPAddress": "xx",  
        "Location": "xx",  
        "Device": 0  
      }  
    ],  
    "RealStartTime": 1,  
    "RealEndTime": 1,  
    "MessageCount": 1,  
    "MicCount": 1,  
    "RequestId": "xx"  
  }  
}
```

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](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RoomNotEnd	The class has not ended.
InternalError	Internal error.
ResourceNotFound.Room	The room does not exist.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.

GetRoomEvent

最近更新时间：2024-04-01 19:34:22

1. API Description

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

This API is used to get the events of a room. It only works within one hour after a class ends.

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: GetRoomEvent.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
SdkAppId	Yes	Integer	The application ID.
Page	Yes	Integer	The starting page. Pagination starts from 1. This parameter is valid only if <code>keyword</code> is empty.
Limit	Yes	Integer	The maximum number of records (up to 200) per page. This parameter is valid only if <code>keyword</code> is empty.
Keyword	No	String	The type of events to query. Valid values: <code>RoomStart</code> : The class started.

RoomEnd	: The class ended.
MemberJoin	: A user joined.
MemberQuit	: A user left.
RecordFinish	: Recording is finished.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of events for the room. The value of this parameter is not affected by <code>keyword</code> .
Events	Array of EventInfo	The event details, including the type and time. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the events of a room

This example shows you how to get the events of a room.

Input Example

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

{
  "RoomId": 1,
  "SdkAppId": 1234,
  "Page": 1,
  "Limit": 10,
  "Keyword": ""
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Events": [
      {
        "Timestamp": 1,
        "EventType": "abc",
        "EventData": {
          "RoomId": 1,
          "UserId": "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](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.Room	The room does not exist.

GetRoomMessage

最近更新时间：2024-04-01 19:34:21

1. API Description

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

This API is used to get the message history of a room (room messages are retained for seven days).

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: GetRoomMessage.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
RoomId	Yes	Integer	The room ID.
Seq	No	Integer	The starting message sequence. Messages before this sequence will be returned (not including the message whose sequence is <code>seq</code>).
Limit	No	Integer	The maximum number of messages to return. The value of this parameter cannot exceed the maximum message count allowed by your package.

3. Output Parameters

Parameter Name	Type	Description
Messages	Array of MessageList	The message list.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the message history of a room

This example shows you how to get the message history of a room.

Input Example

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

{
  "SdkAppId": 0,
  "RoomId": 1,
  "Seq": 0,
  "Limit": 1
}
```

Output Example

```
{
  "Response": {
    "Messages": [
      {
        "Timestamp": 0,
        "FromAccount": "abc",
        "Seq": 0,
        "MessageBody": [
```



```

{
  "MessageType": 0,
  "TextMessage": "abc",
  "ImageMessage": "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.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.

FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.RoomNotEnd	The class has not ended.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.Room	The room does not exist.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

ModifyRoom

最近更新时间：2024-04-01 19:34:19

1. API Description

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

This API is used to modify a room.

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

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: ModifyRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
StartTime	No	Integer	The room start time (Unix timestamp).
EndTime	No	Integer	The room end time (Unix timestamp).
TeacherId	No	String	The user ID of the teacher. User IDs are returned by the user registration APIs.
Name	No	String	The room name.

Resolution	No	Integer	The resolution. Valid values: 1: SD; 2: HD; 3: FHD.
MaxMicNumber	No	Integer	The maximum number of mic-on users (excluding the teacher). Value range: 0-16.
AutoMic	No	Integer	Whether to automatically turn the mic on when a user enters the room. Valid values: 0: No (default value); 1: Yes.
AudioQuality	No	Integer	Whether to enable the high audio quality mode. Valid values: 0: No (default value); 1: Yes.
SubType	No	String	The room subtype. Valid values: videodoc: Document + Video; video: Video only; coteaching: Dual-teacher.
DisableRecord	No	Integer	Whether to disable auto recording. Valid values: 0: No (default); 1: Yes. If this parameter is 0, recording will start when the class starts and stops when the class ends.
Assistants.N	No	Array of String	The user IDs of the teacher assistants. User IDs are returned by the user registration APIs.
GroupId	No	String	The ID of the group to bind.
EnableDirectControl	No	Integer	Whether the students' consent is required to control their cameras/microphones.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying room parameters

This example shows you how to modify room parameters.

Input Example

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

{
  "RoomId": 1,
  "StartTime": 1,
  "EndTime": 1,
  "TeacherId": "abc",
  "Name": "abc",
  "Resolution": 1,
  "MaxMicNumber": 1,
  "AutoMic": 1,
  "AudioQuality": 1,
  "SubType": "abc",
  "DisableRecord": 1,
  "Assistants": [
    "abc"
  ],
  "SdkAppId": 1,
  "GroupId": "abc",
  "EnableDirectControl": 1
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

Example2 示例

修改类型

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyRoom
<common request parameters>
```

```
{
  "RoomId": 368760996,
  "SdkAppId": 3520371
}
```

Output Example

```
{
  "Response": {
    "RequestId": "50034c8f-cd77-43f2-815e-afe990fb023d"
  }
}
```

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](#).

Error Code	Description

FailedOperation	Operation failed.
FailedOperation.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
UnknownParameter	Unknown parameter error.

DeleteRoom

最近更新时间：2024-04-01 19:34:26

1. API Description

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

This API is used to delete a room.

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: DeleteRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	Room ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a room.

Input Example

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

{
  "RoomId": 123
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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](#).

Error Code	Description
FailedOperation.ClassStarted	Class status error. The class has already started.
InternalServerError	Internal error.
ResourceNotFound.Room	The room does not exist.

KickUserFromRoom

最近更新时间：2024-04-01 19:34:20

1. API Description

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

This API is used to remove a user from the room.

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: KickUserFromRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
UserId	Yes	String	The ID of the user to be removed.
KickType	Yes	Integer	The removal type: <code>1</code> : Keep the user out temporarily. The <code>Duration</code> parameter specifies the ban duration, during which the user is banned from entering the room. <code>2</code> : Remove the user permanently.

Duration	Yes	Integer	The ban duration (seconds). This parameter is valid if <code>KickType</code> is <code>1</code> . The default value is <code>0</code> .
----------	-----	---------	--

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 永久踢除用户

示例

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: KickUserFromRoom
<common request parameters>

{
  "RoomId": 313337981,
  "SdkAppId": 3520371,
  "UserId": "2PMcgEVHi9CMWq6tmfNnPGUkEGn",
  "KickType": 2,
  "Duration": 0
}
```

Output Example

```
{
  "Response": {
    "RequestId": "3f156f86-9939-4ea0-ae7-81d32fa46c3f"
  }
}
```

5. Developer Resources

SDK

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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
InternalServerError	Internal error.
ResourceNotFound.Room	The room does not exist.

DescribeAnswerList

最近更新时间：2024-04-01 19:34:26

1. API Description

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

This API is used to get the answers to a quiz question in a room.

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: DescribeAnswerList.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
QuestionId	Yes	String	The question ID.
Page	No	Integer	1
Limit	No	Integer	100

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Total	Integer	The total number of answers.
AnswerInfo	Array of AnswerInfo	A list of the answers. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the answers to a quiz question in a room

This example shows you how to get the answers to a quiz question in a room.

Input Example

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

{
  "QuestionId": "69d2345d-0p80-7821-b3b7-cbfsdew",
  "Page": 1,
  "Limit": 100
}
```

Output Example

```
{
  "Response": {
    "AnswerInfo": [
      {
        "Answer": 12,
        "CostTime": 10,
        "IsCorrect": 0,
        "Name": "zhangsan",
        "UserId": "2MANXmcVsYjgo9Bk00mvONkvekD"
      },

```

```
{
  "Answer": 33,
  "CostTime": 6,
  "IsCorrect": 0,
  "Name": "lisi",
  "UserId": "2NP9SrTzakytuidv429i4rbNepD"
},
{
  "RequestId": "8cc600da-b066-476a-a527-ee19c46f77f9",
  "Total": 2
}
}
```

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](#).

Error Code	Description
FailedOperation.RequestTimedOut	Request timed out.

InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource doesn't exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DescribeQuestionList

最近更新时间：2024-04-01 19:34:24

1. API Description

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

This API is used to get the quiz details of a room.

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: DescribeQuestionList.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
Page	No	Integer	The page to return records from. Pagination starts from 1, which is also the default value of this parameter.
Limit	No	Integer	The page to return records from. Pagination starts from 1, which is also the default value of this parameter.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of quiz questions.
QuestionInfo	Array of QuestionInfo	A list of the questions. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the quiz details of a room

This example shows you how to get the quiz details of a room.

Input Example

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

{
  "RoomId": 382651668,
  "Page": 1,
  "Limit": 1
}
```

Output Example

```
{
  "Response": {
    "QuestionInfo": [
      {
        "AnswerStats": [
          {
            "Answer": 1,
            "Count": 0
          },
          {

```

```
"Answer": 2,
"Count": 1
},
{
"Answer": 4,
"Count": 0
},
{
"Answer": 8,
"Count": 1
},
{
"Answer": 16,
"Count": 0
}
],
"CorrectAnswer": 8,
"Duration": 0,
"QuestionContent": "Test",
"QuestionId": "7bd1e2cf-4291-447e-bd9d-123007abcf9a"
}
],
"RequestId": "2b0b1930-c032-4b8b-b4da-33a333da78d1",
"Total": 2
}
}
```

5. Developer Resources

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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.RequestTimedOut	Request timed out.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource doesn't exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

GetRooms

最近更新时间：2024-04-01 19:34:21

1. API Description

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

This API is used to get the room 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: GetRooms.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
StartTime	No	Integer	The start time. The default start time is 30 minutes before the current time.
EndTime	No	Integer	The end time. The default end time is 30 minutes after the current time.
Page	No	Integer	The page to return records from. Pagination starts from 1.
Limit	No	Integer	The number of records per page. The default is 10.

Status.N	No	Array of Integer	Classroom status. Default display all classes, 0 is not started, 1 is in class, 2 is finished, 3 is expired
----------	----	------------------	---

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of rooms.
Rooms	Array of RoomItem	The room list.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting a list of rooms

This example shows you how to get a list of rooms.

Input Example

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

{
  "SdkAppId": 1,
  "StartTime": 1,
  "EndTime": 1,
  "Page": 1,
  "Limit": 1
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Rooms": [
      {
        "Name": "abc",
        "RoomId": 1,
        "Status": 1,
        "StartTime": 1,
        "EndTime": 1,
        "RealStartTime": 1,
        "RealEndTime": 1,
        "Resolution": 1,
        "MaxRTCMember": 1,
        "ReplayUrl": "abc",
        "EnableDirectControl": 0
      }
    ],
    "RequestId": "abc"
  }
}
```

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](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.RequestTimedOut	Request timed out.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

EndRoom

最近更新时间：2024-04-01 19:34:22

1. API Description

Domain name for API request: `lcic.tencentcloudapi.com`.

This API is used to end a room.

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: EndRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Ending a room

This example shows you how to end a room (the room ID passed in exists).

Input Example

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

{
  "RoomId": 1111
}
```

Output Example

```
{
  "Response": {
    "RequestId": "19faa0a4-c1c8-40fe-afdb-6cb67f1b3196"
  }
}
```

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](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.RequestTimedOut	Request timed out.
FailedOperation.RoomNotEnd	The class has not ended.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound.Room	The room does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

StartRoom

最近更新时间：2024-04-01 19:34:18

1. API Description

Domain name for API request: `lcic.tencentcloudapi.com`.

This API is used to start a room. Before you call this API, make sure a user has entered the room so that the class is initialized.

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: StartRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a

```
RequestId). RequestId is required for locating a problem.
```

4. Example

Example1 Starting a room

This example shows you how to end a room (the room ID passed in does not exist).

Input Example

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

{
  "RoomId": 11111
}
```

Output Example

```
{
  "Response": {
    "RequestId": "0479a5ea-0b81-4d94-845d-f57b23e52e4e"
  }
}
```

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](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.RequestTimedOut	Request timed out.
FailedOperation.RoomNotEnd	The class has not ended.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound.Room	The room does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

Group Management APIs

AddGroupMember

最近更新时间：2024-04-01 19:34:37

1. API Description

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

This API is used to add users to a group.

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

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: AddGroupMember.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	The group ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
MemberIds.N	Yes	Array of String	The users. Array length limit: 200.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Add users to a group

This example shows you how to add users to a group.

Input Example

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

{
  "GroupId": "abcdfdfg",
  "SdkAppId": 12345678,
  "MemberIds": [
    "dfgdfg"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.

RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

BatchAddGroupMember

最近更新时间：2024-04-01 19:34:36

1. API Description

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

This API is used to add users to multiple groups at a time.

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

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: BatchAddGroupMember.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupIds.N	Yes	Array of String	The target group IDs. Array length limit: 100.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
MemberIds.N	Yes	Array of String	The users to add. Array length limit: 200.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Adding users to multiple groups

This example shows you how to add users to multiple groups.

Input Example

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

{
  "GroupIds": [
    "abcdfdfg",
    "dfgsdgsdg"
  ],
  "SdkAppId": 12345678,
  "MemberIds": [
    "dfgdfg"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.

ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceNotFound.User	The user does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

BatchCreateGroupWithMembers

最近更新时间：2024-04-01 19:34:35

1. API Description

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

This API is used to create multiple groups at a time.

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

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: BatchCreateGroupWithMembers.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
GroupBaseInfos.N	Yes	Array of GroupBaseInfo	The information of the groups to create. Array length limit: 256.
MemberIds.N	No	Array of String	The group members. Array length limit: 200.

3. Output Parameters

Parameter Name	Type	Description
GroupIds	Array of String	The IDs of the groups created, which are in the same order as the elements in the request parameter <code>GroupBaseInfos.N</code> .
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating multiple groups

This example shows you how to create multiple groups.

Input Example

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

{
  "SdkAppId": 12345678,
  "GroupBaseInfos": [
    {
      "GroupName": "test1",
      "TeacherId": "abc"
    },
    {
      "GroupName": "test2"
    }
  ],
  "MemberIds": [
    "abc",
    "bcd"
  ]
}
```

Output Example

```

{
  "Response": {
    "GroupIds": [
      "2CvDgjRNjylAsBZB4iZc0F6koXe",
      "abcddredrtert"
    ],
    "RequestId": "213das"
  }
}
    
```

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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.

InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTeachersNotExist	The teacher does not exist.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

BatchDeleteGroupMember

最近更新时间：2024-04-01 19:34:35

1. API Description

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

This API is used to remove users from multiple groups at a time.

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

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: BatchDeleteGroupMember.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupIds.N	Yes	Array of String	The target group IDs. Array length limit: 100.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
MemberIds.N	Yes	Array of String	The users to remove. Array length limit: 256.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Removing users from multiple groups

This example shows you how to remove users from multiple groups.

Input Example

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

{
  "GroupIds": [
    "abcdfdfg",
    "dfgsdgsdg"
  ],
  "SdkAppId": 12345678,
  "MemberIds": [
    "dfgdfg"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.

OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceNotFound.User	The user does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.

CreateGroupWithMembers

最近更新时间：2024-04-01 19:34:34

1. API Description

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

This API is used to create a group and specify its members.

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

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: CreateGroupWithMembers.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupName	Yes	String	The group name.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
TeacherId	No	String	The user ID of the teacher.
MemberIds.N	No	Array of String	The group members. Array length limit: 200.

3. Output Parameters

Parameter Name	Type	Description
GroupId	String	The ID of the successfully created group.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a group

This example shows you how to create a group and specify its members.

Input Example

```

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

{
  "GroupName": "test",
  "SdkAppId": 12345678,
  "MemberIds": [
    "abc",
    "bcd"
  ]
}
    
```

Output Example

```

{
  "Response": {
    "GroupId": "2CvDgjRNjylAsBZB4iZc0F6koXe",
    "RequestId": "213das"
  }
}
    
```

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
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTeachersNotExist	The teacher does not exist.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

CreateGroupWithSubGroup

最近更新时间：2024-04-01 19:34:34

1. API Description

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

This API is used to merge groups.

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

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: CreateGroupWithSubGroup.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupName	Yes	String	The group name after merging.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
SubGroupIds.N	Yes	Array of String	The IDs of the groups to merge. Duplicate group IDs are not allowed. Array length limit: 40.
TeacherId	No	String	The user ID of the teacher.

3. Output Parameters

Parameter Name	Type	Description
GroupId	String	The ID of the merged group.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Merging groups

This example shows you how to merge groups.

Input Example

```
{
  "GroupName": "test",
  "SdkAppId": 12345678,
  "TeacherId": "dfgdfg",
  "SubGroupIds": ["abc", "bcd"]
}
```

Output Example

```
{
  "Response": {
    "GroupId": "2CvDgjRNjylAsBZB4iZc0F6koXe",
    "RequestId": "213das"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTeachersNotExist	The teacher does not exist.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.

ResourceNotFound	The resource doesn't exist.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceNotFound.User	The user does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DeleteGroup

最近更新时间：2024-04-01 19:34:33

1. API Description

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

This API is used to delete one or multiple groups.

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

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: DeleteGroup.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupIds.N	Yes	Array of String	The IDs of the groups to delete.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting groups

This example shows you how to delete groups.

Input Example

```
{
  "GroupIds": ["abcdfdfg"],
  "SdkAppId": 12345678
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupNotExist	The group does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DeleteGroupMember

最近更新时间：2024-04-01 19:34:32

1. API Description

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

This API is used to remove users from a group.

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

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: DeleteGroupMember.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	The group ID. You cannot remove members from a merged group.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
MemberIds.N	Yes	Array of String	The users. Array length limit: 200.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Removing users from a specific group

This example shows you how to remove users from a specific group.

Input Example

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

{
  "GroupId": "abcdfdgf",
  "SdkAppId": 12345678,
  "MemberIds": [
    "dfgdfg"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTeachersNotExist	The teacher does not exist.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.

MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceNotFound.User	The user does not exist.
UnknownParameter	Unknown parameter error.

DescribeGroup

最近更新时间：2024-04-01 19:34:32

1. API Description

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

This API is used to get the details of a group.

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

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: DescribeGroup.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	The group ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.

3. Output Parameters

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

GroupId	String	The group ID.
GroupName	String	The group name.
TeacherId	String	Note: This field may return null, indicating that no valid values can be obtained.
GroupType	Integer	The group type. 0: Ordinary group. 1: Merged group. If the group queried is a merged group, the IDs of the sub-groups will be returned.
SubGroupIds	Array of String	Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the details of a group

This example shows you how to get the details of a group.

Input Example

```
{
  "GroupId": "abcdfdfg",
  "SdkAppId": 12345678
}
```

Output Example

```
{
  "Response": {
    "GroupId": "xx",
    "GroupName": "xx",
    "TeacherId": "xx",
    "GroupType": 1,
    "SubGroupIds": [
      "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](#)
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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
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.

MissingParameter	Missing parameter.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DescribeGroupList

最近更新时间：2024-04-01 19:34:31

1. API Description

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

This API is used to query groups.

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

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: DescribeGroupList.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Page	No	Integer	The page to return records from. Pagination starts from 1.
Limit	No	Integer	The maximum number of records per page. The value of this parameter cannot exceed 1000 and is 20 by default.
TeacherId	No	String	The user ID of the teacher, which is used as the filter. This parameter and MemberId are mutually exclusive. If both are specified, only this parameter will take effect.

MemberId	No	String	The user ID of a member, which is used as the filter. This parameter and TeacherId are mutually exclusive.
----------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of groups that meet the conditions.
GroupInfos	Array of GroupInfo	Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 示例1

TeacherId和MemberId都不填的返回结果

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeGroupList
<common request parameters>

{
  "SdkAppId": 3618809
}
```

Output Example

```
{
  "Response": {
    "GroupInfos": [
      {
        "GroupId": "cfmsqfu2r378uak93i70",
```

```
"GroupName": "修改测试群组名称",
"GroupType": 0,
"SubGroupIds": null,
"TeacherId": "2LoDvr6M9TvI4x4dMFBpGRzxZXr"
},
{
"GroupId": "cfmst8u2r378uak93i90",
"GroupName": "批量创建群组1",
"GroupType": 0,
"SubGroupIds": null,
"TeacherId": ""
},
{
"GroupId": "cfmst8u2r378uak93i9g",
"GroupName": "批量创建群组2",
"GroupType": 0,
"SubGroupIds": null,
"TeacherId": ""
},
{
"GroupId": "cfmthke2r378uak93ii0",
"GroupName": "测试修改群组",
"GroupType": 0,
"SubGroupIds": null,
"TeacherId": "2LoDvr6M9TvI4x4dMFBpGRzxZXr"
},
{
"GroupId": "cjdipop7qk6r714q0fh0",
"GroupName": "lukatest",
"GroupType": 0,
"SubGroupIds": null,
"TeacherId": ""
}
],
"RequestId": "5b261337-70dc-49a9-92cb-820641958626",
"Total": 5
}
}
```

Example2 示例2

查询TeacherId的结果

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeGroupList
<common request parameters>

{
  "SdkAppId": 3618809,
  "TeacherId": "2LoDvr6M9TvI4x4dMFBpGRzxZXr"
}
```

Output Example

```
{
  "Response": {
    "GroupInfos": [
      {
        "GroupId": "cfmsqfu2r378uak93i70",
        "GroupName": "修改测试群组名称",
        "GroupType": 0,
        "SubGroupIds": null,
        "TeacherId": "2LoDvr6M9TvI4x4dMFBpGRzxZXr"
      },
      {
        "GroupId": "cfmthke2r378uak93ii0",
        "GroupName": "测试修改群组",
        "GroupType": 0,
        "SubGroupIds": null,
        "TeacherId": "2LoDvr6M9TvI4x4dMFBpGRzxZXr"
      }
    ],
    "RequestId": "a69c412e-1da6-4d27-bd37-c74a2703f94a",
    "Total": 2
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
RequestLimitExceeded	Too many requests.
ResourceNotFound.GroupNotExist	The group does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.

UnsupportedOperation

Unsupported operation.

DescribeGroupMemberList

最近更新时间：2024-04-01 19:34:30

1. API Description

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

This API is used to get the members of a group.

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

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: DescribeGroupMemberList.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	The group ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Page	No	Integer	The page to return records from. The default value is 1.
Limit	No	Integer	The maximum number of records per page. The value of this parameter cannot exceed 1000 and is 20 by default.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of records that meet the conditions.
MemberIds	Array of String	Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the members of a group

This example shows you how to get the members of a group.

Input Example

```
{
  "GroupId": "abcdfdfg",
  "SdkAppId": 12345678
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das",
    "Total": 2,
    "MemberIds": [
      "dfgdfgd",
      "dfgsdfg"
    ]
  }
}
```

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](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.

ResourceInsufficient	Insufficient resource.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

ModifyGroup

最近更新时间：2024-04-01 19:34:30

1. API Description

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

This API is used to modify a group.

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

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: ModifyGroup.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	The ID of the group to modify.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
TeacherId	No	String	The user ID of the teacher.
GroupName	No	String	The new group name.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying a group

This example shows you how to modify a group.

Input Example

```
{
  "GroupId": "test",
  "SdkAppId": 12345678,
  "GroupName": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit is reached.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.

ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

Application Configuration APIs

SetAppCustomContent

最近更新时间：2024-04-01 19:34:44

1. API Description

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

This API is used to set or update the custom content of an application, including the application icon and custom code. After you update JS and CSS content, you also need to call this API for the updates to take effect.

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: SetAppCustomContent.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
CustomContent.N	Yes	Array of AppCustomContent	Custom content
SdkAppId	Yes	Integer	Application ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Configuring custom content for an application

This example shows you how to configure custom content for an application.

Input Example

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

{
  "SdkAppId": 123,
  "CustomContent": [
    {
      "Scene": "default",
      "LogoUrl": "https://yourdomain.com/logo.png",
      "HomeUrl": "https://yourdomain.com/login",
      "JsUrl": "https://yourdomain.com/default.js",
      "CssUrl": "https://yourdomain.com/default.css"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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](#)
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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.RequestTimedOut	Request timed out.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.CssOrJs	Unable to access the CSS/JavaScript address.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

DeleteAppCustomContent

最近更新时间：2024-04-01 19:34:47

1. API Description

Domain name for API request: `lcic.tencentcloudapi.com`.

This API is used to delete the custom elements. The `Scenes` parameter specifies the custom elements to delete. If `Scenes` is empty, all custom elements will be deleted.

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: DeleteAppCustomContent.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The application ID.
Scenes.N	No	Array of String	The custom elements (for which a scene has been configured) to delete. If this is empty, all custom elements will be deleted.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting custom elements

Input Example

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

{
  "SdkAppId": 123,
  "Scenes": [
    "xx"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

ModifyApp

最近更新时间：2024-04-01 19:34:45

1. API Description

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

This API is used to modify an application.

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

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: ModifyApp.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	LCIC SdkAppId
Callback	No	String	Callback URL. Currently, only port 80 and port 443 are supported.
CallbackKey	No	String	The callback key.
TransferId	No	String	Transfer Id
TransferUrl	No	String	Transfer Url

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying an application.

This example shows you how to modify an application.

Input Example

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

{
  "SdkAppId": 1234657,
  "Callback": "xx"
}
```

Output Example

```
{
  "Response": {
    "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 Node.js](#)
- [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.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

GetWatermark

最近更新时间：2024-04-01 19:34:45

1. API Description

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

This API is used to get watermark settings.

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

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: GetWatermark.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.

3. Output Parameters

Parameter Name	Type	Description
TeacherLogo	WatermarkConfig	The watermark settings for the teacher's video. Note: This field may return null, indicating that no valid values can be obtained.

BoardLogo	WatermarkConfig	The watermark settings for the whiteboard. Note: This field may return null, indicating that no valid values can be obtained.
BackgroundPicture	BackgroundPictureConfig	The background image. Note: This field may return null, indicating that no valid values can be obtained.
Text	TextMarkConfig	The watermark text. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting watermark settings

This example shows you how to get watermark settings.

Input Example

```
{
  "SdkAppId": 1
}
```

Output Example

```
{
  "Response": {
    "TeacherLogo": {
      "Url": "xx",
      "Width": 0,
      "Height": 0,
      "LocationX": 0,
      "LocationY": 0
    },
    "BoardLogo": {
      "Url": "xx",
      "Width": 0,
      "Height": 0,
      "LocationX": 0,
      "LocationY": 0
    }
  }
}
```

```
},
"BackgroundPicture": {
  "Url": "xx"
},
"Text": {
  "Text": "xx",
  "Color": "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 Node.js](#)
- [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.
InvalidParameter	Invalid parameter.

InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
UnknownParameter	Unknown parameter error.

SetWatermark

最近更新时间：2024-04-01 19:34:43

1. API Description

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

This API is used to configure watermarks.

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

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: SetWatermark.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
TeacherUrl	No	String	The URL of the watermark for the teacher's video. If you pass in an empty string, the teacher's video will not have a watermark.
BoardUrl	No	String	The URL of the watermark for the whiteboard. If you pass in an empty string, the whiteboard video will not have a watermark.
VideoUrl	No	String	The image displayed when there is no video. If you pass in an empty string, no images will be displayed.

BoardW	No	Float	The width of the whiteboard's watermark, which is expressed as a percentage of the video width. The value range is 0-100, and the default value is 0.
BoardH	No	Float	The height of the whiteboard's watermark, which is expressed as a percentage of the video height. The value range is 0-100, and the default value is 0.
BoardX	No	Float	The horizontal offset of the whiteboard's watermark, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle horizontally. Value range: 0-100.
BoardY	No	Float	The vertical offset of the whiteboard's watermark, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle vertically. Value range: 0-100.
TeacherW	No	Float	The width of the watermark for the teacher's video, which is expressed as a percentage of the video width. The value range is 0-100, and the default value is 0.
TeacherH	No	Float	The height of the watermark for the teacher's video, which is expressed as a percentage of the video height. The value range is 0-100, and the default value is 0.
TeacherX	No	Float	The horizontal offset of the watermark for the teacher's video, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle horizontally. Value range: 0-100.
TeacherY	No	Float	The vertical offset of the watermark for the teacher's video, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle vertically. Value range: 0-100.
Text	No	String	The watermark text. If you pass in an empty string, there will be no text.
TextColor	No	String	The watermark text color.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a

RequestId). RequestId is required for locating a problem.

4. Example

Example1 Configuring watermarks

This example shows you how to configure watermarks.

Input Example

```
{
  "SdkAppId": 1,
  "TeacherUrl": "xx",
  "BoardUrl": "xx",
  "VideoUrl": "xx",
  "BoardW": 0,
  "BoardH": 0,
  "BoardX": 0,
  "BoardY": 0,
  "TeacherW": 0,
  "TeacherH": 0,
  "TeacherX": 0,
  "TeacherY": 0,
  "Text": "xx",
  "TextColor": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

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.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
UnauthorizedOperation	Unauthorized operation.

CreateSupervisor

最近更新时间：2024-04-01 19:34:48

1. API Description

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

This API is used to create a spectator.

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: CreateSupervisor.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The application ID.
Users.N	Yes	Array of String	The user IDs.

3. Output Parameters

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

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating spectator users

This example shows you how to create spectator users.

Input Example

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

{
  "SdkAppId": 123,
  "Users": [
    "test"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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
InternalServerError	Internal error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.User	The user does not exist.

DeleteSupervisor

最近更新时间：2024-04-01 19:34:47

1. API Description

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

This API is used to delete spectators.

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: DeleteSupervisor.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The application ID.
Users.N	Yes	Array of String	The user IDs.

3. Output Parameters

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

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting spectators

This example shows you how to delete spectators.

Input Example

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

{
  "SdkAppId": 1,
  "Users": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
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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.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.User	The user does not exist.

DescribeSupervisors

最近更新时间：2024-04-01 19:34:46

1. API Description

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

This API is used to get the spectators of a room.

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: DescribeSupervisors.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Limit	No	Integer	The maximum number of records per page. The maximum value allowed is 100, and the default value is 20.
Page	No	Integer	The page to return records from. Pagination starts from 1, which is also the default value of this parameter.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of spectators.
Page	Integer	The current page number.
Limit	Integer	The number of records on the current page.
UserIds	Array of String	A list of the spectators.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the spectators of a room

This example shows you how to get the spectators of a room.

Input Example

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

{
  "SdkAppId": 1,
  "Limit": 1,
  "Page": 1
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Page": 1,
    "Limit": 1,
```

```

"UserIds": [
  "abc"
],
"RequestId": "abc"
}
}

```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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.RequestTimedOut	Request timed out.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource doesn't exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

Recording Management APIs

DeleteRecord

最近更新时间：2024-04-01 19:34:28

1. API Description

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

This example shows you how to delete the recording files of a specific room.

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

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: DeleteRecord.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.

3. Output Parameters

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

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Configuring watermarks

This example shows you how to delete the recording files of a specific room.

Input Example

```
{
  "RoomId": 0,
  "SdkAppId": 0
}
```

Output Example

```
{
  "Response": {
    "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 Node.js](#)
- [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.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound.Room	The room does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

BatchDeleteRecord

最近更新时间：2024-04-01 19:34:29

1. API Description

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

This API is used to delete the recordings of multiple rooms.

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

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: BatchDeleteRecord.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomIds.N	Yes	Array of Integer	The room IDs.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RoomIds	Array of Integer	The IDs of the rooms whose recordings are deleted. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting the recordings of multiple rooms

This API shows you how to delete the recordings of multiple rooms at a time.

Input Example

```
{
  "RoomIds": [
    0
  ],
  "SdkAppId": 1
}
```

Output Example

```
{
  "Response": {
    "RoomIds": [
      0
    ],
    "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.

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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.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
ResourceNotFound.Room	The room does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.

Courseware Management APIs

CreateDocument

最近更新时间：2024-04-01 19:34:41

1. API Description

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

This API is used to create a document to be used in a room.

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: CreateDocument.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	LCIC SdkAppId
DocumentUrl	Yes	String	Document URL
DocumentName	Yes	String	Document name
Owner	Yes	String	Document owner ID

TranscodeType	No	Integer	Transcoding type. Valid values: <code>0</code> : No transcoding required (default); <code>1</code> : Documents that need to be transcoded: ppt, pptx, pdf, doc, docx; <code>2</code> : Videos that need to be transcoded: mp4, 3pg, mpeg, avi, flv, wmv, rm, h264, etc.; <code>2</code> : Audio that needs to be transcoded: mp3, wav, wma, aac, flac, opus
Permission	No	Integer	Permission. Valid values: <code>0</code> : Private document (default); <code>1</code> : Public document
DocumentType	No	String	Document extension
DocumentSize	No	Integer	Document size, in bytes
AutoHandleUnsupportedElement	No	Boolean	Whether or not to enable automatic processing for unsupported elements. Default: off. The automatically processed elements are as follows: 1. Ink: Remove unsupported ink (e.g. WPS Ink) 2. Auto Page Turn: Remove all auto page turn settings on the PPT and set it to mouse click to turn the page 3. Corrupted Audio/Video: Remove references to corrupted audio/video on the PPT

3. Output Parameters

Parameter Name	Type	Description
DocumentId	String	Document ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a document.

Input Example

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

{
  "SdkAppId": 1,
  "DocumentUrl": "xx",
  "DocumentName": "xx",
  "Owner": "xx",
  "TranscodeType": 1,
  "Permission": 1,
  "DocumentType": "xx",
  "DocumentSize": 100
}
```

Output Example

```
{
  "Response": {
    "DocumentId": "xx",
    "RequestId": "213das"
  }
}
```

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	Operation failed.
FailedOperation.RequestTimedOut	Request timed out.
InternalError	Internal error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.User	The user does not exist.

BindDocumentToRoom

最近更新时间：2024-04-01 19:34:42

1. API Description

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

This API is used to bind a document to a room.

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: BindDocumentToRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	Room ID
DocumentId	Yes	String	Document ID
BindType	No	Integer	Binding type. The default value is 0. The backend passes through this parameter to clients so that the clients can implement business logic based on this parameter.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Binds a document to a room.

Input Example

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

{
  "DocumentId": "xx",
  "RoomId": 123
}
```

Output Example

```
{
  "Response": {
    "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.

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- [Tencent Cloud SDK 3.0 for PHP](#)
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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.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.

DescribeDocuments

最近更新时间：2024-04-01 19:34:39

1. API Description

This API will be disused soon.

Planned disuse time: 2023-07-19 20:06:57

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

有新接口替换

A new API is offered for this action now.

This API is used to query courseware. It has been deprecated. Please use `BatchDescribeDocument` instead.

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

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: DescribeDocuments.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SchoolId	Yes	Integer	The school ID.
Page	Yes	Integer	The page to return records from. Pagination starts from 1.
Limit	Yes	Integer	The maximum number of records per page. The value of this parameter cannot exceed <code>1000</code> .
Permission.N	Yes	Array of Integer	The courseware access. [0]: The private courseware of the specified user (<code>Owner</code>) will be returned; [1]: The public courseware of the specified user will be returned; [0,1]: Both the private and public

			courseware of the specified user will be returned; [2]: The private courseware of the specified user and the public courseware of all users (including <code>Owner</code>) will be returned.
Owner	No	String	The user ID of the courseware owner. If you do not specify this parameter, all courseware under the school ID will be returned.
Keyword	No	String	The filename keyword.
DocumentId.N	No	Array of String	The courseware IDs. Non-existent IDs will be ignored.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of records that meet the conditions.
Documents	Array of DocumentInfo	The information of the courseware. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying courseware

This example shows you how to query courseware.

Input Example

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

{
  "SchoolId": 1,
```

```
"Page": 0,  
"Limit": 0,  
"Permission": [  
  1  
],  
"Owner": "abc",  
"Keyword": "abc",  
"DocumentId": [  
  "abc"  
]  
}
```

Output Example

```
{  
  "Response": {  
    "Total": 0,  
    "Documents": [  
      {  
        "DocumentId": "abc",  
        "DocumentUrl": "abc",  
        "DocumentName": "abc",  
        "Owner": "abc",  
        "SdkAppId": 1,  
        "Permission": 1,  
        "TranscodeResult": "abc",  
        "TranscodeType": 1,  
        "TranscodeProgress": 1,  
        "TranscodeState": 1,  
        "TranscodeInfo": "abc",  
        "DocumentType": "abc",  
        "DocumentSize": 1,  
        "UpdateTime": 1,  
        "Pages": 1,  
        "Width": 1,  
        "Height": 1,  
        "Cover": "abc"  
      }  
    ],  
    "RequestId": "abc"  
  }  
}
```

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
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

BatchDescribeDocument

最近更新时间：2024-04-01 19:34:43

1. API Description

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

This API is used to get courseware 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: BatchDescribeDocument.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Page	Yes	Integer	The page to return records from. Pagination starts from 1.
Limit	Yes	Integer	The maximum number of records per page. The value of this parameter cannot exceed 1000 .
Permission.N	Yes	Array of Integer	The courseware access. [0]: The private courseware of the specified user (Owner) will be returned; [1]: The public courseware of the specified user will be returned; [0,1]: Both the private and public courseware of the specified user will be returned; [2]: The private

			courseware of the specified user and the public courseware of all users (including <code>Owner</code>) will be returned.
Owner	No	String	The user ID of the courseware owner. If you do not specify this, the information of all courseware under the application will be returned.
Keyword	No	String	The filename keyword.
DocumentId.N	No	Array of String	The courseware IDs. Non-existent IDs will be ignored.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of records that meet the conditions.
Documents	Array of DocumentInfo	The information of the courseware. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting courseware information

This example shows you how to get courseware information.

Input Example

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

{
  "SdkAppId": 1,
  "Page": 0,
```

```
"Limit": 0,
"Permission": [
  1
],
"Owner": "abc",
"Keyword": "abc",
"DocumentId": [
  "abc"
]
}
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "Documents": [
      {
        "DocumentId": "abc",
        "DocumentUrl": "abc",
        "DocumentName": "abc",
        "Owner": "abc",
        "SdkAppId": 1,
        "Permission": 1,
        "TranscodeResult": "abc",
        "TranscodeType": 1,
        "TranscodeProgress": 1,
        "TranscodeState": 1,
        "TranscodeInfo": "abc",
        "DocumentType": "abc",
        "DocumentSize": 1,
        "UpdateTime": 1,
        "Pages": 1,
        "Width": 1,
        "Height": 1,
        "Cover": "abc"
      }
    ],
    "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
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

UnbindDocumentFromRoom

最近更新时间：2024-04-01 19:34:38

1. API Description

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

This API is used to unbind a document from a room.

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: UnbindDocumentFromRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	Room ID
DocumentId	Yes	String	Document ID

3. Output Parameters

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

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Unbinding a document from a room.

Input Example

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

{
  "DocumentId": "xx",
  "RoomId": 123
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.

DescribeDocumentsByRoom

最近更新时间：2024-04-01 19:34:39

1. API Description

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

This API is used to get the document list of a specific room.

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

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: DescribeDocumentsByRoom.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
RoomId	Yes	Integer	The room ID.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Page	No	Integer	The page to return records from. Pagination starts from 1, which is also the default value of this parameter.
Limit	No	Integer	The maximum number of records to return per page. The maximum value can be 1000. The default value is 100.

Permission.N	No	Array of Integer	The document access type. [0]: The private documents of the owner. [1]: The public documents of the owner. [0,1]: The private and public documents of the owner. [2]: The private and public documents of all users (including the owner). Default value: [2].
Owner	No	String	The user ID of the document owner. If you do not specify this, the information of all documents under the application will be returned.

3. Output Parameters

Parameter Name	Type	Description
Documents	Array of DocumentInfo	Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	The total number of records that meet the conditions.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the documents of a specific room

This example shows you how to query the documents of a specific room.

Input Example

```
{
  "RoomId": 1,
  "SdkAppId": 1234567
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Documents": [
      {
```

```
"DocumentId": "xx",
"DocumentUrl": "xx",
"DocumentName": "xx",
"Owner": "xx",
"SdkAppId": 1,
"Permission": 1,
"TranscodeResult": "xx",
"TranscodeType": 1,
"TranscodeProgress": 1,
"TranscodeState": 1,
"TranscodeInfo": "xx",
"DocumentType": "xx",
"DocumentSize": 1,
"UpdateTime": 1
}
],
"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 .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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.ImageArgInvalid	Image parameter error.
FailedOperation.OriginIdExists	The user origin ID already exists.
FailedOperation.RoomNotEnd	The class has not ended.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit is reached.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.

ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DeleteDocument

最近更新时间：2024-04-01 19:34:41

1. API Description

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

This API is used to delete a document.

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

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: DeleteDocument.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
DocumentId	Yes	String	The document ID.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a

RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a document

Input Example

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

{
  "DocumentId": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "213das"
  }
}
```

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
InternalError	Internal error.
ResourceNotFound.Document	The file does not exist.

DescribeDocument

最近更新时间：2024-04-01 19:34:40

1. API Description

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

This API is used to get the information of a specific document.

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

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: DescribeDocument.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
DocumentId	Yes	String	The (unique) document ID.

3. Output Parameters

Parameter Name	Type	Description
DocumentId	String	The document ID.
DocumentUrl	String	The document's original URL.

DocumentName	String	The document title.
Owner	String	The user ID of the document's owner.
SdkAppId	Integer	The application ID.
Permission	Integer	The document access type.
TranscodeResult	String	The transcoding result. If the file is not transcoded, this parameter will be empty. If it is successfully transcoded, this parameter will be the URL of the transcoded file. If transcoding fails, this parameter will indicate the error code.
TranscodeType	Integer	The transcoding type.
TranscodeProgress	Integer	The transcoding progress. Value range: 0-100.
TranscodeState	Integer	The transcoding status. 0: The file is not transcoded. 1: The file is being transcoded. 2: Transcoding failed. 3: Transcoding is successful.
TranscodeInfo	String	The error message for failed transcoding.
DocumentType	String	The document type.
DocumentSize	Integer	The document size (bytes).
UpdateTime	Integer	The time (Unix timestamp) when the document was last updated.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 测试示例

pdf 示例

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDocument
<common request parameters>

{
```

```
"DocumentId": "omxxxxsdc"
}
```

Output Example

```
{
  "Response": {
    "DocumentId": "omxxxxsdc",
    "DocumentName": "滴滴电子发票 (1).pdf",
    "DocumentSize": 38673,
    "DocumentType": "pdf",
    "DocumentUrl": "https://tcic-source.qcloudclass.com/uploads/5390248a-5eb7-4fe8-be27-c43dbad1380f/3520371/1679021408_KzpMGD38.pdf",
    "Owner": "2N1zP0mW7E3Vr3xJ2ZQ9GeFDK4t",
    "Permission": 0,
    "RequestId": "ee3fdca0-c88c-43f1-81b4-4f51f9e50521",
    "SdkAppId": 3520371,
    "TranscodeInfo": "",
    "TranscodeProgress": 100,
    "TranscodeResult": "https://tcic-test-1257307760.qcloudclass.com/doc/01aq2v7djsh31noat9gc_tiw/picture/",
    "TranscodeState": 3,
    "TranscodeType": 1,
    "UpdateTime": 1679021410
  }
}
```

Example2 获取文档详情

示例

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDocument
<common request parameters>

{
  "DocumentId": "ntxsfrzk"
}
```

Output Example

```
{
  "Response": {
    "DocumentId": "ntxsfrzk",
    "DocumentName": "test.pptx",
    "DocumentSize": 15814364,
    "DocumentType": "pptx",
    "DocumentUrl": "https://tcic-source.qcloudclass.com/uploads/5390248a-5eb7-4fe8-be27-c43dbad1380f/3520371/1677202414_85bt9f0X.pptx",
    "Owner": "2M04q0j5mhsbq1lAEbCW1dhRvA2",
    "Permission": 0,
    "RequestId": "d97f98d7-de89-455a-a1f3-b9dae84d84bb",
    "SdkAppId": 3520371,
    "TranscodeInfo": "Microsoft Macintosh PowerPoint",
    "TranscodeProgress": 100,
    "TranscodeResult": "https://tcic-test-1257307760.qcloudclass.com/doc/gsutgbm7ssh31ns71sfc_tiw/h5/index.html",
    "TranscodeState": 3,
    "TranscodeType": 1,
    "UpdateTime": 1677202419
  }
}
```

Example3 示例

课件预览示例

Input Example

```
POST / HTTP/1.1
Host: lcic.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDocument
<common request parameters>

{
  "DocumentId": "ntxsfrzk"
}
```

Output Example

```
{
  "Response": {
    "DocumentId": "ntxsfrzk",
    "DocumentName": "test.pptx",
    "DocumentSize": 15814364,
```

```
"DocumentType": "pptx",
"DocumentUrl": "https://tcic-source.qcloudclass.com/uploads/5390248a-5eb7-4fe8-be
27-c43dbad1380f/3520371/1677202414_85bt9f0X.pptx",
"Owner": "2M04q0j5mhsbq1lAEbCW1dhRvA2",
"Permission": 0,
"RequestId": "8a7bafba-bc67-4040-8203-475532db535f",
"SdkAppId": 3520371,
"TranscodeInfo": "Microsoft Macintosh PowerPoint",
"TranscodeProgress": 100,
"TranscodeResult": "https://tcic-test-1257307760.qcloudclass.com/doc/gsutgbm7ssh3
1ns71sfc_tiw/h5/index.html",
"TranscodeState": 3,
"TranscodeType": 1,
"UpdateTime": 1677202419
}
}
```

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 Node.js](#)
- [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.
ResourceNotFound.Document	The file does not exist.

User Management APIs

RegisterUser

最近更新时间：2024-04-01 19:34:14

1. API Description

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

This API is used to register a user.

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: RegisterUser.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	LCIC SdkAppId
Name	No	String	Username
OriginId	No	String	User's ID in the customer system, which should be unique under the same application
Avatar	No	String	User's profile photo

3. Output Parameters

Parameter Name	Type	Description
UserId	String	User ID
Token	String	Login status token returned after successful login or registration. The token is valid for seven days.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Registering a user.

Input Example

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

{
  "SdkAppId": 1234657
}
```

Output Example

```
{
  "Response": {
    "UserId": "2CvDgjRNjylAsBZB4iZc0F6koXe",
    "Token": "3o32r0j134m13aa0uva0jvj90qj4j004198",
    "RequestId": "213das"
  }
}
```

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 Node.js](#)
- [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.OriginIdExists	The user origin ID already exists.
InternalError	Internal error.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.

BatchRegister

最近更新时间：2024-04-01 19:34:16

1. API Description

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

This API is used to register multiple users (up to 1,000) at a time. If a user ID already exists, the existing one will be overwritten.

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

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: BatchRegister.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
Users.N	Yes	Array of BatchUserRequest	The information of the users to register.

3. Output Parameters

Parameter Name	Type	Description
Users	Array of BatchUserInfo	The information of the successfully registered users. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Registering multiple users

This API shows you how to register multiple users at a time.

Input Example

```
{
  "Users": [
    {
      "SdkAppId": 1,
      "Name": "xx",
      "OriginId": "xx",
      "Avatar": "xx"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "Users": [
      {
        "SdkAppId": 1,
        "UserId": "xx",
        "OriginId": "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 Node.js](#)
- [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.
InvalidParameter	Invalid parameter.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
UnauthorizedOperation	Unauthorized operation.

DescribeSdkAppIdUsers

最近更新时间：2024-04-01 19:34:16

1. API Description

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

This API is used to get the user list of a specific application.

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

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: DescribeSdkAppIdUsers.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
SdkAppId	Yes	Integer	The SDKAppID assigned by LCIC.
Page	No	Integer	The page to return records from. The default value is 1.
Limit	No	Integer	The maximum number of records to return per page. The default value is 20.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of users.
Users	Array of UserInfo	The information of the users. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the user list of an application

This example shows you how to get the user list of an application.

Input Example

```
{
  "SdkAppId": 123456
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Users": [
      {
        "Name": "xx",
        "UserId": "xx",
        "Avatar": "xx",
        "SdkAppId": 1
      }
    ],
    "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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.ImageArgInvalid	Image parameter error.
FailedOperation.OriginIdExists	The user origin ID already exists.
FailedOperation.RoomNotEnd	The class has not ended.
InternalError	Internal error.

InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit is reached.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

DescribeUser

最近更新时间：2024-04-01 19:34:15

1. API Description

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

This API is used to obtain user profile.

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: DescribeUser.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
UserId	Yes	String	User ID

3. Output Parameters

Parameter Name	Type	Description
SdkAppId	Integer	The application ID.
UserId	String	User ID

Name	String	Username
Avatar	String	URL of user profile photo.
OriginId	String	User's Id in the client system
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 This API is used to obtain user profile.

Input Example

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

{
  "UserId": "xx"
}
```

Output Example

```
{
  "Response": {
    "Name": "xx",
    "UserId": "xx",
    "Avatar": "xx",
    "SdkAppId": 1,
    "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.

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- [Tencent Cloud SDK 3.0 for Go](#)
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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
InternalServerError	Internal error.
ResourceNotFound.User	The user does not exist.

ModifyUserProfile

最近更新时间：2024-04-01 19:34:14

1. API Description

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

This API is used to modify a user profile such as the nickname and profile photo.

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

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: ModifyUserProfile.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.
UserId	Yes	String	The ID of the user whose profile will be modified.
Nickname	No	String	The new username to use.
Avatar	No	String	The URL of the new profile photo.

3. Output Parameters

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

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying a user profile

This example shows you how to modify a user profile.

Input Example

```
{
  "UserId": "xxx",
  "Nickname": "abc"
}
```

Output Example

```
{
  "Response": {
    "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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
DryRunOperation	The request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.ImageArgInvalid	Image parameter error.
FailedOperation.OriginIdExists	The user origin ID already exists.
FailedOperation.RoomNotEnd	The class has not ended.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit is reached.

MissingParameter	Missing parameter.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

Developer APIs

DescribeDeveloper

最近更新时间：2024-04-01 19:34:37

1. API Description

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

This API is used to get developer 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: DescribeDeveloper.
Version	Yes	String	Common Params . The value used for this API: 2022-08-17.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
DeveloperId	String	The developer ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if

the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the developer information

This example shows you how to get the developer information.

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "DeveloperId": "123",
    "RequestId": "123"
  }
}
```

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](#)
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- [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
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.RequestTimedOut	Request timed out.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

Data Types

最近更新时间：2024-04-01 19:55:36

AnswerInfo

The answer to a quiz question.

Used by actions: DescribeAnswerList.

Name	Type	Description
Name	String	The username.
Answer	Integer	The answer. Bits are used to indicate the options chosen. For example, <code>0x1</code> indicates that option A is chosen; <code>0x11</code> indicates that A and B are chosen, and so on.
CostTime	Integer	The time used.
UserId	String	The user ID.
IsCorrect	Integer	Whether the answer is correct. <code>1</code> : Correct; <code>0</code> : Incorrect.

AnswerStat

The statistics for each type of answer.

Used by actions: DescribeQuestionList.

Name	Type	Description
Answer	Integer	The answer. Bits are used to indicate the options chosen. For example, <code>0x1</code> indicates that option A is chosen; <code>0x11</code> indicates that A and B are chosen, and so on.
Count	Integer	The number of users that submitted the answer.

AppCustomContent

Custom application content

Used by actions: SetAppCustomContent.

Used by actions: SetAppCustomContent.

Name	Type	Required	Description
Scene	String	Yes	Multiple scenarios can be set for an application.
LogoUrl	String	No	Logo URL
HomeUrl	String	No	Homepage URL, which can be used for redirection
JsUrl	String	No	Custom JS URL
CssUrl	String	No	Custom CSS URL

BackgroundPictureConfig

Background image settings.

Used by actions: GetWatermark.

Name	Type	Description
Url	String	The URL of the background image. Note: This field may return null, indicating that no valid values can be obtained.

BatchUserInfo

The information of registered users.

Used by actions: BatchRegister.

Used by actions: BatchRegister.

Name	Type	Description
SdkAppId	Integer	The SDKAppID assigned by LCIC.
UserId	String	Note: This field may return null, indicating that no valid values can be obtained.
OriginId	String	Note: This field may return null, indicating that no valid values can be obtained.

BatchUserRequest

The information of the users to register.

Used by actions: BatchRegister.

Used by actions: BatchRegister.

Name	Type	Required	Description
SdkAppId	Integer	Yes	The SDKAppID assigned by LCIC. Note: This field may return null, indicating that no valid values can be obtained.
Name	String	No	The username. Note: This field may return null, indicating that no valid values can be obtained.
OriginId	String	No	The user's ID in your system, which must be unique across the same application. Note: This field may return null, indicating that no valid values can be obtained.
Avatar	String	No	The user's profile photo. Note: This field may return null, indicating that no valid values can be obtained.

CustomMsgContent

Used by actions: GetRoomMessage.

Name	Type	Required	Description
Data	String	No	Custom message data.
Desc	String	No	Customize the message description information.
Ext	String	No	Extended Fields

DocumentInfo

Document Information.

Used by actions: DescribeDocumentsByRoom.

Used by actions: BatchDescribeDocument, DescribeDocuments, DescribeDocumentsByRoom.

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

DocumentId	String	The document ID. Note: This field may return null, indicating that no valid values can be obtained.
DocumentUrl	String	The document's original URL. Note: This field may return null, indicating that no valid values can be obtained.
DocumentName	String	The document title. Note: This field may return null, indicating that no valid values can be obtained.
Owner	String	The user ID of the document's owner. Note: This field may return null, indicating that no valid values can be obtained.
SdkAppId	Integer	The application ID. Note: This field may return null, indicating that no valid values can be obtained.
Permission	Integer	The document access type. 0: Private; 1: Public. Note: This field may return null, indicating that no valid values can be obtained.
TranscodeResult	String	The transcoding result. If the file is not transcoded, this parameter will be empty. If it is successfully transcoded, this parameter will be the URL of the transcoded file. If transcoding fails, this parameter will indicate the error code. Note: This field may return null, indicating that no valid values can be obtained.
TranscodeType	Integer	The transcoding type. Note: This field may return null, indicating that no valid values can be obtained.
TranscodeProgress	Integer	The transcoding progress. Value range: 0-100. Note: This field may return null, indicating that no valid values can be obtained.
TranscodeState	Integer	The transcoding status. 0: The file is not transcoded. 1: The file is being transcoded. 2: Transcoding failed. 3: Transcoding is successful. Note: This field may return null, indicating that no valid values can be obtained.
TranscodeInfo	String	The error message for failed transcoding. Note: This field may return null, indicating that no valid values can be obtained.
DocumentType	String	The document type. Note: This field may return null, indicating that no valid values can be obtained.
DocumentSize	Integer	The document size (bytes). Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	Integer	The time (Unix timestamp) when the document was last updated. Note: This field may return null, indicating that no valid values can be obtained.
Pages	Integer	The number of pages. Note: This field may return null, indicating that no valid values can be

		obtained.
Width	Integer	The width. This parameter is valid only if static document transcoding is used. Note: This field may return null, indicating that no valid values can be obtained.
Height	Integer	The height. This parameter is valid only if static document transcoding is used. Note: This field may return null, indicating that no valid values can be obtained.
Cover	String	The thumbnail. Only transcoded courseware has thumbnails. Note: This field may return null, indicating that no valid values can be obtained.
Preview	String	Document preview address

EventDataInfo

The information of a room event.

Used by actions: GetRoomEvent.

Name	Type	Description
RoomId	Integer	The room ID. Note: This field may return null, indicating that no valid values can be obtained.
UserId	String	The ID of the user to whom the event occurred. Note: This field may return null, indicating that no valid values can be obtained.
Device	Integer	User device type. 0: Unknown; 1: Windows; 2: macOS; 3: Android; 4: iOS; 5: Web; 6: Mobile webpage; 7: Wechat Mini Program.
Duration	Integer	Recording time. Unit: seconds
RecordSize	Integer	Recorded file size
RecordUrl	String	Recording url

EventInfo

The event information.

Used by actions: GetRoomEvent.

Name	Type	Description
Timestamp	Integer	The Unix timestamp (seconds) when the event occurred.
EventType	String	The event type. Valid values: RoomStart : The class started. RoomEnd : The class ended. MemberJoin : A user joined. MemberQuit : A user left. RecordFinish : Recording is finished. CameraOn : The camera is turned on. CameraOff : The camera is turned off. MicOn : The mic is turned on. MicOff : The mic is turned off. ScreenOn : Screen sharing is enabled. ScreenOff : Screen sharing is disabled. VisibleOn : The page is visible. VisibleOff : The page is invisible.
EventData	EventDataInfo	The details of the event, including the room ID and the user to whom the event occurred. Note: This field may return null, indicating that no valid values can be obtained.

GroupBaseInfo

The information of the groups to create.

Used by actions: BatchCreateGroupWithMembers.

Used by actions: BatchCreateGroupWithMembers.

Name	Type	Required	Description
GroupName	String	Yes	The group names. Note: This field may return null, indicating that no valid values can be obtained.
TeacherId	String	No	The user ID of the teacher. Note: This field may return null, indicating that no valid values can be obtained.

GroupInfo

The information of the groups queried.

Used by actions: DescribeGroupList.

Used by actions: DescribeGroupList.

Name	Type	Description
GroupId	String	Note: This field may return null, indicating that no valid values can be obtained.
GroupName	String	Note: This field may return null, indicating that no valid values can be obtained.
TeacherId	String	Note: This field may return null, indicating that no valid values can be obtained.
GroupType	Integer	Note: This field may return null, indicating that no valid values can be obtained.
SubGroupIds	String	Note: This field may return null, indicating that no valid values can be obtained.

MemberRecord

Member record information

Used by actions: DescribeCurrentMemberList, DescribeRoomStatistics.

Used by actions: DescribeCurrentMemberList, DescribeRoomStatistics.

Name	Type	Description
UserId	String	User ID
UserName	String	Username
PresentTime	Integer	Online duration, in seconds
Camera	Integer	Whether the camera is enabled
Mic	Integer	Whether the mic is enabled
Silence	Integer	Whether the user is muted
AnswerQuestions	Integer	Number of questions answered by the user
HandUps	Integer	Number of hand raising times

FirstJoinTimestamp	Integer	First time that the user entered the room, in UNIX timestamp format
LastQuitTimestamp	Integer	Last time that the user left the room, in UNIX timestamp format
Rewords	Integer	Number of rewards received
IPAddress	String	The user's IP address.
Location	String	The user's location.
Device	Integer	The user's device type. 0: Unknown; 1: Windows; 2: macOS; 3: Android; 4: iOS; 5: Web; 6: Mobile webpage; 7: Weixin Mini Program.
PerMemberMicCount	Integer	The number of times a user turned their mic on.
PerMemberMessageCount	Integer	The number of messages sent by a user.
Role	Integer	The user role. 0 : Student; 1 : Teacher; 2 : Teaching Assistant; 3 : Spectator.
GroupId	String	The class number.
SubGroupId	Array of String	The sub-class number. Note: This field may return null, indicating that no valid values can be obtained.
Stage	Integer	Whether the user is on the stage. Note: This field may return null, indicating that no valid values can be obtained.
CurrentState	Integer	User status. 0 is not present, 1 is online, 2 is offline, 3 is kicked, 4 is permanently kicked, 5 is temporarily offline

MessageItem

The information of a message.

Used by actions: GetRoomMessage.

Name	Type	Description
MessageType	Integer	The message type. 0 : Text; 1 : Image. Note: This field may return null, indicating that no valid values can be obtained.
TextMessage	String	The text. This parameter is valid if <code>MessageType</code> is 0 .

		Note: This field may return null, indicating that no valid values can be obtained.
ImageMessage	String	The image URL. This parameter is valid if <code>MessageType</code> is <code>1</code> . Note: This field may return null, indicating that no valid values can be obtained.
CustomMessage	CustomMsgContent	Customize the message content. Valid when message type=2.

MessageList

The list of historical messages.

Used by actions: GetRoomMessage.

Name	Type	Description
Timestamp	Integer	The message timestamp. Note: This field may return null, indicating that no valid values can be obtained.
FromAccount	String	The sender. Note: This field may return null, indicating that no valid values can be obtained.
Seq	Integer	The message sequence, which is unique across a class. The earlier a message is sent, the lower the sequence. Note: This field may return null, indicating that no valid values can be obtained.
MessageBody	Array of MessageItem	The message content. Note: This field may return null, indicating that no valid values can be obtained.

QuestionInfo

A quiz question in a room.

Used by actions: DescribeQuestionList.

Name	Type	Description

QuestionId	String	The question ID.
QuestionContent	String	The question.
Duration	Integer	The time limit for the question. If you set this parameter to <code>0</code> , there will not be a time limit.
CorrectAnswer	Integer	The correct answer. Bits are used to indicate the options that should be chosen. For example, <code>0x1</code> indicates option A; <code>0x11</code> indicates A and B, and so on.
AnswerStats	Array of AnswerStat	The statistics for each type of answer. Note: This field may return null, indicating that no valid values can be obtained.

RoomInfo

The information of the room to create.

Used by actions: BatchCreateRoom.

Used by actions: BatchCreateRoom.

Name	Type	Required	Description
Name	String	Yes	The room name.
StartTime	Integer	Yes	The room start time (Unix timestamp).
EndTime	Integer	Yes	The room end time (Unix timestamp).
Resolution	Integer	Yes	The resolution. Valid values: <code>1</code> : SD; <code>2</code> : HD; <code>3</code> : FHD.
MaxMicNumber	Integer	Yes	The maximum number of mic-on users (excluding the teacher). Value range: 0-16.
SubType	String	Yes	The room subtype. Valid values: <code>videodoc</code> : Document + Video; <code>video</code> : Video only; <code>coteaching</code> : Dual-teacher.
TeacherId	String	No	The user ID of the teacher. User IDs are returned by the user registration APIs.
AutoMic	Integer	No	Whether to automatically turn the mic on when a user enters the room. Valid values: <code>0</code> (default): No; <code>1</code> :

			Yes.
TurnOffMic	Integer	No	Whether to disconnect communication after audio/video permissions are revoked. Valid values: <code>0</code> (default): Yes; <code>1</code> : No.
AudioQuality	Integer	No	Whether to enable the high audio quality mode. Valid values: <code>0</code> (default): No; <code>1</code> : Yes.
DisableRecord	Integer	No	Whether to disable auto recording. Valid values: <code>0</code> (default): No; <code>1</code> : Yes. If this parameter is <code>0</code> , recording will start when the class starts and stops when the class ends.
Assistants	Array of String	No	The user IDs of the teacher assistants. User IDs are returned by the user registration APIs.
RTCAudienceNumber	Integer	No	The number of RTC users.
AudienceType	Integer	No	The audience type.
RecordLayout	Integer	No	The recording layout.
GroupId	String	No	The ID of the group to bind. Note: This field may return null, indicating that no valid values can be obtained.
EnableDirectControl	Integer	No	Whether the students' consent is required to control their cameras/microphones.
InteractionMode	Integer	No	Turn on focus mode. <code>0</code> Watch all character audio and video (default) <code>1</code> Watch only teachers and teaching assistants
VideoOrientation	Integer	No	Horizontal and vertical screen. <code>0</code> : Horizontal screen to open broadcast (default); <code>1</code> : Vertical screen to open broadcast, currently only support mobile pure video type
IsGradingRequiredPostClass	Integer	No	Whether the room is enabled for grading after the lesson. <code>0</code> : not enabled <code>1</code> : enabled
RoomType	Integer	No	Room Type: <code>0</code> Small Classroom(default); <code>1</code> Lecture Hall(public class)
EndDelayTime	Integer	No	Drag class time: unit minutes, <code>0</code> is unlimited (default), <code>-1</code> is can't drag the class, greater than <code>0</code> is the time of

			dragging the class, the maximum value of 120 minutes
LiveType	Integer	No	Live type: 0 regular (default) 1 Simulated Live
RecordLiveUrl	String	No	Simulated Live link
EnableAutoStart	Integer	No	Whether to start the lesson automatically: 0 not automatic lesson (default) 1 automatic lesson live_type=1 is valid
RecordBackground	String	No	Recorded file background image, support png, jpg, jpeg, bmp format, does not support transparent channel for the time being
RecordScene	String	No	Record customized scene, only recordlayout=9 this parameter is valid, the data content for the user-defined scene parameters, data format for the json key-value pairs, where the key-value pairs of the value for the string type.

RoomItem

The room list.

Used by actions: GetRooms.

Name	Type	Description
Name	String	The name. Note: This field may return null, indicating that no valid values can be obtained.
RoomId	Integer	The room ID. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The room status. 0 : Not started; 1 : Started; 2 : Ended. Note: This field may return null, indicating that no valid values can be obtained.
StartTime	Integer	The scheduled start time. Note: This field may return null, indicating that no valid values can be obtained.

EndTime	Integer	The scheduled end time. Note: This field may return null, indicating that no valid values can be obtained.
RealStartTime	Integer	The actual start time. Note: This field may return null, indicating that no valid values can be obtained.
RealEndTime	Integer	The actual end time. Note: This field may return null, indicating that no valid values can be obtained.
Resolution	Integer	The resolution. <code>1</code> : SD. <code>2</code> : HD <code>3</code> : FHD Note: This field may return null, indicating that no valid values can be obtained.
MaxRTCMember	Integer	The maximum number of mic-on users allowed. Note: This field may return null, indicating that no valid values can be obtained.
ReplayUrl	String	The URL of the room's recording. This parameter has been deprecated. Please use <code>RecordUrl</code> instead. Note: This field may return null, indicating that no valid values can be obtained.
RecordUrl	String	The recording URL (HTTPS), which is generated only after a room ends. Note: This field may return null, indicating that no valid values can be obtained.
MaxMicNumber	Integer	The maximum number of users allowed (including teachers) in the room. The default value is <code>0</code> , which indicates that no limit is set. Note: This field may return null, indicating that no valid values can be obtained.
EnableDirectControl	Integer	Whether the students' consent is required to control their cameras/microphones. Note: This field may return null, indicating that no valid value was found.
InteractionMode	Integer	
VideoOrientation	Integer	
IsGradingRequiredPostClass	Integer	

RoomType	Integer	Room Type: 0 Small Classroom(default); 1 Lecture Hall(public class)
EndDelayTime	Integer	
LiveType	Integer	
RecordLiveUrl	String	
EnableAutoStart	Integer	
RecordBackground	String	
RecordScene	String	
RecordLang	String	

TextMarkConfig

The watermark text.

Used by actions: GetWatermark.

Used by actions: GetWatermark.

Name	Type	Description
Text	String	The watermark text. Note: This field may return null, indicating that no valid values can be obtained.
Color	String	The watermark text color. Note: This field may return null, indicating that no valid values can be obtained.

UserInfo

The user information.

Used by actions: DescribeSdkAppIdUsers.

Used by actions: DescribeSdkAppIdUsers.

Name	Type	Description
SdkAppId	Integer	Note: This field may return null, indicating that no valid values can be obtained.

UserId	String	Note: This field may return null, indicating that no valid values can be obtained.
Name	String	Note: This field may return null, indicating that no valid values can be obtained.
Avatar	String	Note: This field may return null, indicating that no valid values can be obtained.
OriginId	String	User's Id in the client system

WatermarkConfig

Watermark settings.

Used by actions: GetWatermark.

Used by actions: GetWatermark.

Name	Type	Description
Url	String	The URL of the watermark image. Note: This field may return null, indicating that no valid values can be obtained.
Width	Float	The watermark width, which is expressed as a percentage of the video width. Note: This field may return null, indicating that no valid values can be obtained.
Height	Float	The watermark height, which is expressed as a percentage of the video height. Note: This field may return null, indicating that no valid values can be obtained.
LocationX	Float	The horizontal offset of the watermark, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle horizontally. Value range: 0-100. Note: This field may return null, indicating that no valid values can be obtained.
LocationY	Float	The vertical offset of the watermark, which is expressed as a percentage of the video width. For example, 50 indicates that the watermark will appear in the middle vertically. Value range: 0-100. Note: This field may return null, indicating that no valid values can be obtained.

Error Codes

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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.
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.
InternalServerError	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.
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
AuthFailure	CAM signature/authentication error.
FailedOperation.ClassEnded	Room status error. The room has ended.
FailedOperation.ClassExpired	Room status error. The room has expired.
FailedOperation.ClassStarted	Class status error. The class has already started.
FailedOperation.ClassTooLong	A class session cannot be longer than five hours.
FailedOperation.ImageArgInvalid	Image parameter error.
FailedOperation.OriginIdExists	The user origin ID already exists.
FailedOperation.RequestTimedOut	Request timed out.
FailedOperation.RoomNotEnd	The class has not ended.

InvalidParameter.Content	Prohibited content (pornographic, terrorist, politically sensitive) detected.
InvalidParameter.CssOrJs	Unable to access the CSS/JavaScript address.
InvalidParameter.EndTime	The end time cannot be earlier than the current time.
InvalidParameter.GroupMemberOverLimit	The number of users in the group reached the limit.
InvalidParameter.GroupParamInvalid	Parameter error. The teacher and group members are not specified.
InvalidParameter.GroupTeacherNotMember	The teacher cannot be a group member.
InvalidParameter.GroupTeachersNotExist	The teacher does not exist.
InvalidParameter.GroupTypeInvalid	Group type error.
InvalidParameter.RoomTypeInvalid	
InvalidParameter.SdkAppId	<code>SdkAppId</code> is incorrect.
InvalidParameter.StartTime	The start time cannot be earlier than the current time.
OperationDenied	Operation denied.
ResourceInsufficient.Record	Insufficient storage space.
ResourceInsufficient.Room	Failed to enter the class. Please check your resource usage in the console.
ResourceNotFound.Document	The file does not exist.
ResourceNotFound.GroupNotExist	The group does not exist.
ResourceNotFound.GroupPartUsersNotExist	The user ID does not exist.
ResourceNotFound.Room	The room does not exist.
ResourceNotFound.User	The user does not exist.
ResourceUnavailable.RoomStatistics	Getting room data. Please wait.
ResourcesSoldOut	The resources have been sold out.