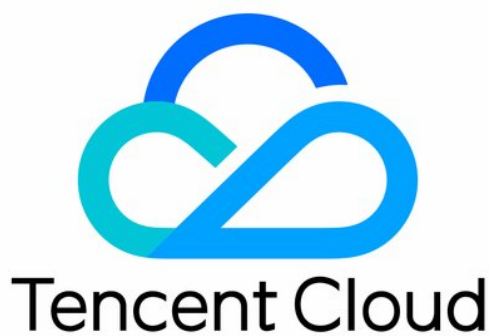


Face Fusion

Quick Start

Product Documentation



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Quick Start

Quick Start Guide

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Registering an Account

Any user who wants to use Tencent Cloud services needs to register for a Tencent Cloud account first. Click here to go to the [Tencent Cloud Registration Page](#). For details, refer to [Register a Tencent Cloud Account](#).

Activating the Service

Log in to the [Face Fusion Console](#) and click **Activate Now** to obtain API call permissions.

Managing Materials

In the [Face Fusion Console](#), click the left menu bar to enter the **Material Management** interface. Click **Create Activity**, follow the instructions to complete the creation, then enter the **Material Management** page, click **Add Material** to upload local material images.

Any use of materials involving copyright require proof of authorisation to use such materials. You can click here to download the [Face Fusion Copyright Certification Template](#).

Testing the Effect

After material processing is completed, you can experience the face fusion effect of the material in **Console > Material Management > Test Result**.

Calling API

Face Fusion provides a free quota to help you easily trial the product.

You can fulfill business development needs through [API](#) calls.

To reduce the difficulty of using Tencent Cloud API, we recommend using [API Explorer](#) for online calls, signature verification, and SDK code generation.

Purchasing the Service

Billing Mode

Choose call volume billing or QPS billing.

If you choose call volume billing, you can use either prepaid or pay-as-you-go methods. If you use prepaid, Face Fusion provides resource packages of different specifications. You can go to [Purchase Page](#) to select. After the resource package is exhausted or expires, it will automatically switch to pay-as-you-go billing for settlement. If you use pay-as-you-go billing directly, there's no need to purchase separately. The system will calculate the total API calls of the previous month and automatically complete the billing and deduction from the 1st to the 3rd of each month. If you select QPS billing, Face Fusion supports purchasing QPS daily or monthly. You can go to [Purchase Page](#) to select.

Material Quota

After activating the Face Fusion service, the system will automatically grant a free material quota. If you need more material quota, go to [Purchase Page](#) to select.

Explanation of Material Quota

Last updated : 2024-09-29 20:05:57

Material

Material refers to the Face Fusion template images designed by yourself. The images generated using the Face Fusion service will maintain the attributes of the characters in the template images, such as posture, expression, and actions. It is recommended to design materials around user usage and sharing scenarios, adhering to the principles of being attractive, interesting, or useful.

You can create and manage materials in the activity of [Face Fusion Console](#). One material ID corresponds to one material, occupying one material quota. If the same template image is uploaded in multiple activities, multiple material IDs will be generated.

Material Quota

Material quota refers to the total limit on the number of materials you can create and use. After activating the Face Fusion service, the system will automatically grant 10 free material quotas. If the material quota does not meet your needs, you can choose to delete some materials to free up space. If there are no materials which can be deleted, we recommend purchasing material quotas as needed in [Purchase Page](#).

Activity

Activities are used for the classified management of materials and can be created in the [Face Fusion Console](#).

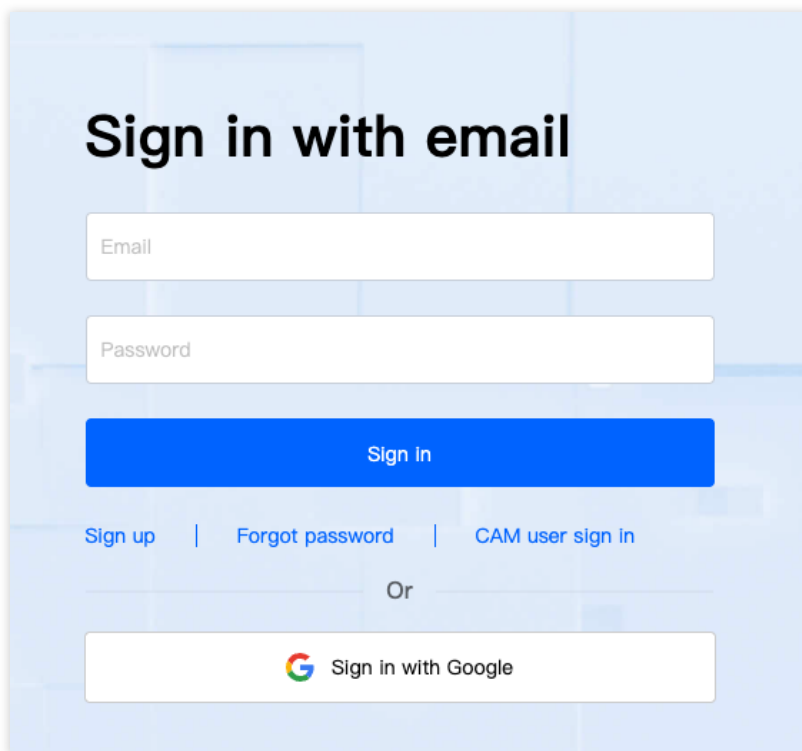
API Access Guide

Last updated : 2024-10-16 11:47:57

Prerequisites

Prerequisites for Using the Official Website Account

1. First, use your Tencent Cloud International site account to [Sign in](#).



Sign in with email


Email

Password

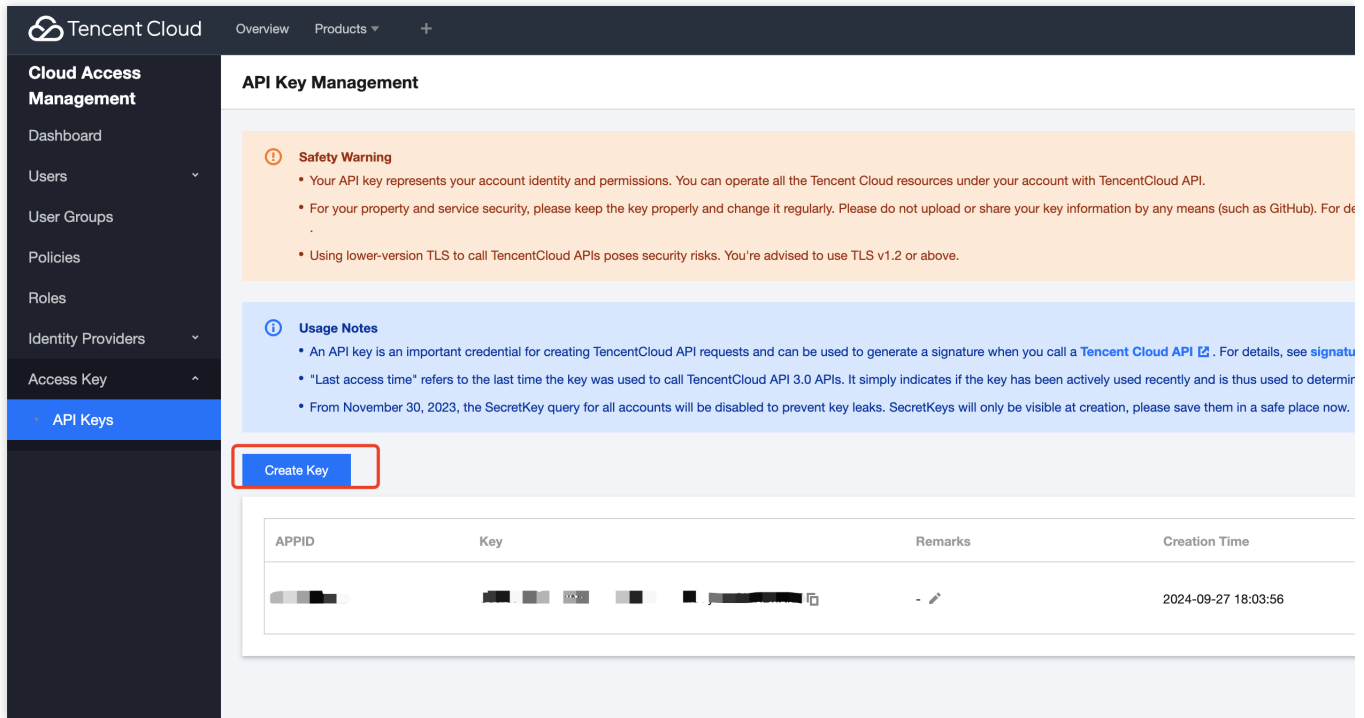
Sign in

[Sign up](#) | [Forgot password](#) | [CAM user sign in](#)

Or

 Sign in with Google

2. Go to the [API Key Management](#) page to obtain the key information.



The screenshot shows the Tencent Cloud API Key Management interface. The left sidebar is titled 'Cloud Access Management' and includes options like Dashboard, Users, User Groups, Policies, Roles, Identity Providers, and Access Key. The 'API Keys' option is selected. The main content area is titled 'API Key Management' and contains a 'Safety Warning' section with three bullet points, a 'Usage Notes' section with three bullet points, and a 'Create Key' button highlighted with a red box. Below the button is a table with the following data:

APPID	Key	Remarks	Creation Time
[REDACTED]	[REDACTED]	-	2024-09-27 18:03:56

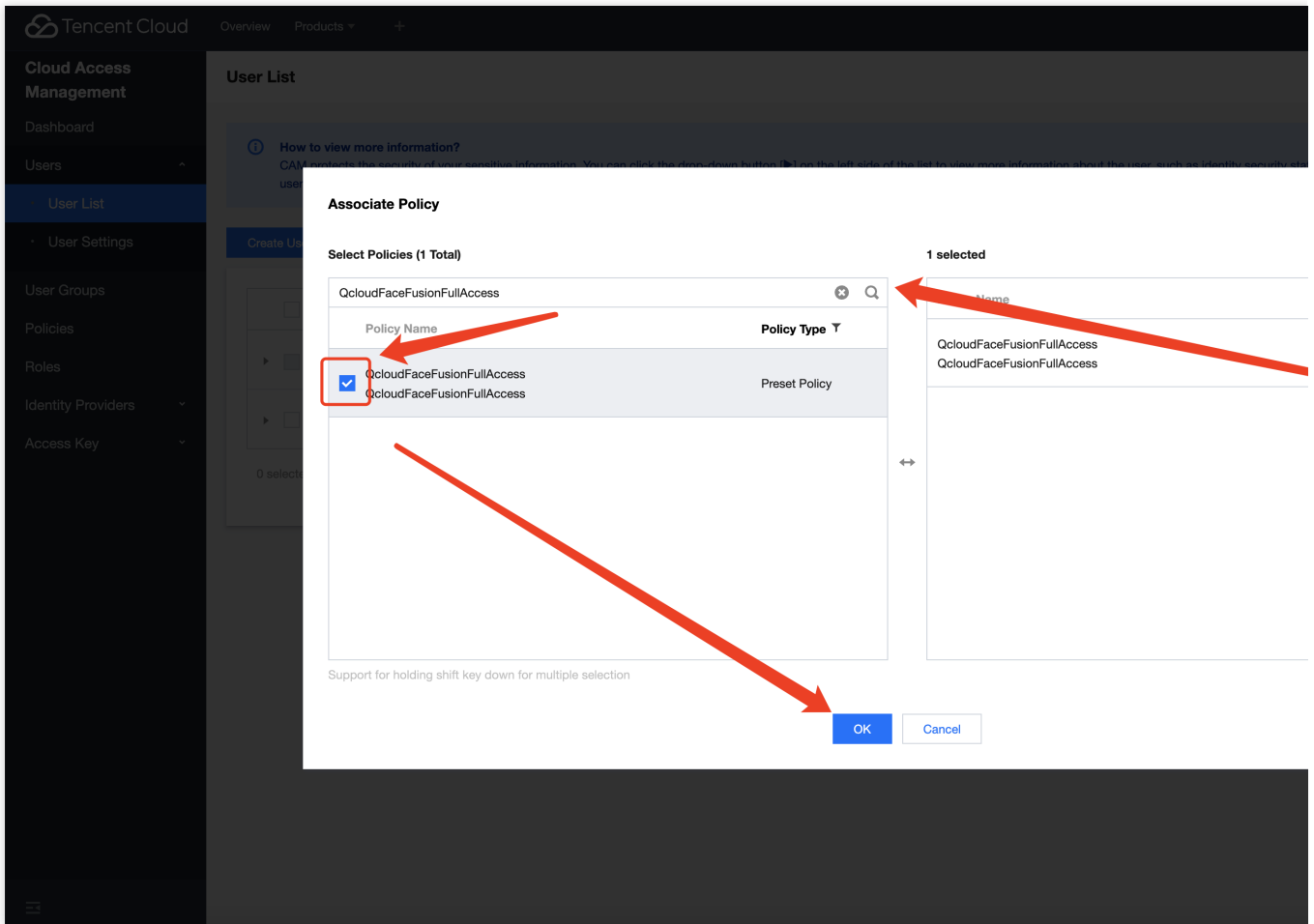
3. If you use the sub-account key of Tencent Cloud International Site to call the API, the root account needs to authorize the sub-account. If you use the root account key, ignore this step.

4. Go to the [User List](#) page, select the corresponding product name, and click **Authorize**.

5. On the policy selection page, select the authorization policy **QcloudFaceFusionFullAccess**, and click **OK**.

Description:

If the sub-account is not authorized to call the API, the message You are not authorized to perform this operation. Check your CAM policies, and ensure that you are using the correct access keys will be prompted during the call.



6. Go to the [Face Fusion](#) console to enable the service.

Description:

If the service is not enabled, the message The billing status is unknown. Check whether the service has been activated in the console will be prompted during the API call.

Prerequisites for API Access

Description:

Due to the overseas access, the request duration might be higher than in China, mainly because the download of overseas images from URLs times out or the transmission of the large package that contains images to be transmitted in Base64 format is time-consuming.

1. Use the request domain name `facefusion.tencentcloudapi.com` for nearby parsing.

2. Suggestions for input information containing images:

Use the Tencent COS address as the URL.

Using the Tencent COS address: Images are downloaded through the private network from Tencent services, which can reduce download time.

Using the CDN address: CDN addresses may involve origin-pull, which may cause a timeout and failure in the first download attempt. In this case, you can retry the request.

If the input parameter is an image, it is recommended to transmit Base64-encoded data to reduce download time.

3. Output image:

If the request is not initiated by the client (App or HTML5), during the request, the client IP address is passed in through the X-Forwarded-For field in the HTTP header. In this case, Tencent Cloud services will return the resource address for the generated result based on the IP location.

If the customer's service is already in the location of the client group, there is no need to pass the client IP address in through the X-Forwarded-For field. In this case, Tencent Cloud services will return the resource address for the generated result based on the customer's service IP address.

API Calling Guide

Image Face Fusion (Basic)

There is an explanation of the interface parameters inside. Click "**Try it**" to enter the API Explorer for online testing. You need to upload materials in the console and obtain the ProjectId and ModelId before testing.

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FuseFace

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1. API Description

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

This API is used to perform the fusion of a single face, multiple faces, and specified faces with the material template. You can also add logos to generated images. See [Fusion Access Guide](#).

- The signature method in the public parameters must be specified as the V3 version. In other words, set the SignatureMethod to SHA256.

We recommend you to use API Explorer

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and auto-generated examples.

2. Input Parameters

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

Parameter Name	Required	Type	Description

API Using Testing

Step 1: Selecting an API

In the left sidebar, select FuseFace.

The screenshot shows the Tencent Cloud API Explorer interface for the FaceFusion API. The left sidebar contains navigation options like 'API Explorer' and 'API Doctor'. The main area displays the 'Face Fusion APIs' list, with 'FuseFace' selected and highlighted by a red box. The right panel shows the 'FuseFace' details, including a warning message about temporary access keys and MFA requirements. Below the warning, there are 'Input Parameters' for 'Region', 'ProjectId', 'ModelId', and 'RspImgType', each with a text input field. At the bottom, there are buttons for 'Initiate invocation' and 'Invocation history', along with a 'Show all parameters' dropdown.

Step 2: Installing the SDK of the Corresponding Language

Currently, only the following programming languages are supported: Node.js, Python, Java, PHP, Go, .NET, and C++. Click **Sample Code**, choose **Connection Method** and **Programming Language**. If **Connection Method** is **SDK** or **SDK Common Client**, you need to install the corresponding SDK for the programming language via **SDK Information** and **SDK Usage Guide**.

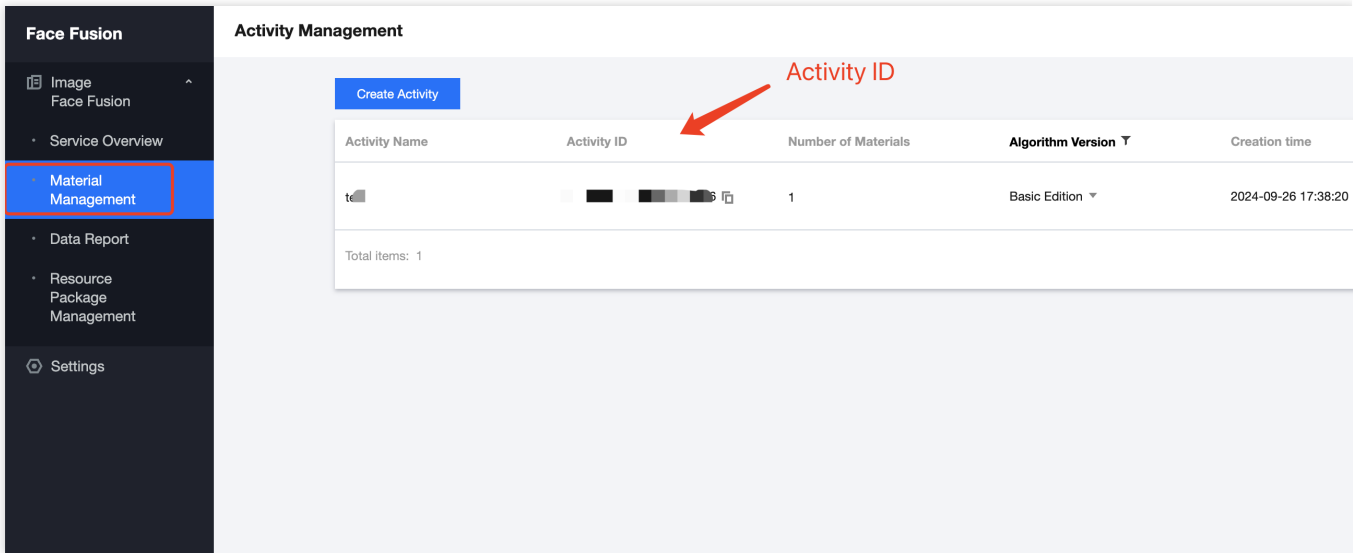
The screenshot shows the Tencent Cloud API Explorer interface for the FaceFusion API. The main area contains a warning message: "When you click 'Send request' on the 'Online invocation' page, the temporary access key of your account will be used to make online API calls. MFA is required for this action. Note that this action may incur fees. Read the billing documentation carefully before the action." Below this, the 'Input Parameters' section includes fields for Region, ProjectId, ModelId, RspingType, and MergeInfos.N. The right sidebar shows the 'Sample Code' tab selected, displaying a GoLang code example for the API call.

Step 3: Entering Parameters and Copying the Call Example

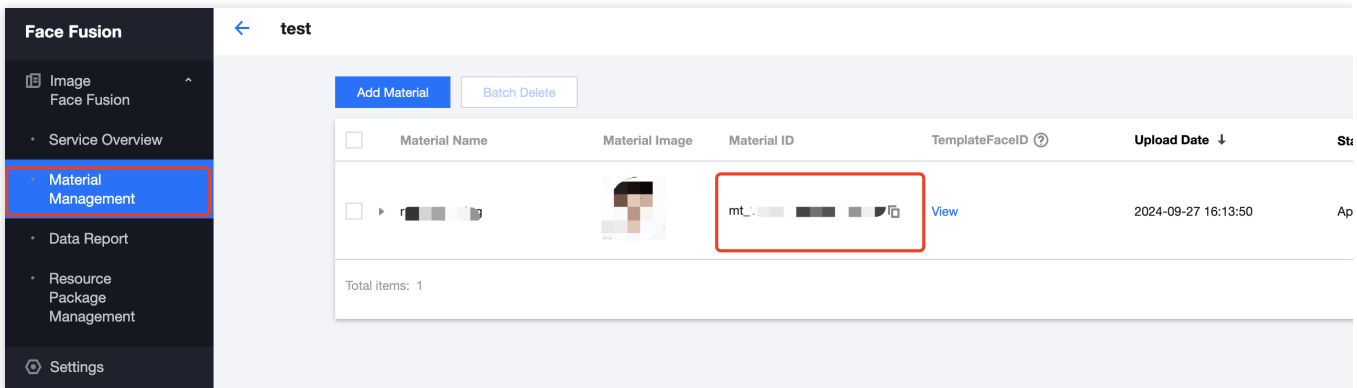
1. In **Input Parameters**, input the parameter information, copy the sample code, and adjust the "SecretId" and "SecretKey" parameters for the call.

Region: This parameter determines the access point, and you can choose the nearest region.

ProjectId: Activity ID. View it in the activity list on the [Face Fusion console](#) material management page.



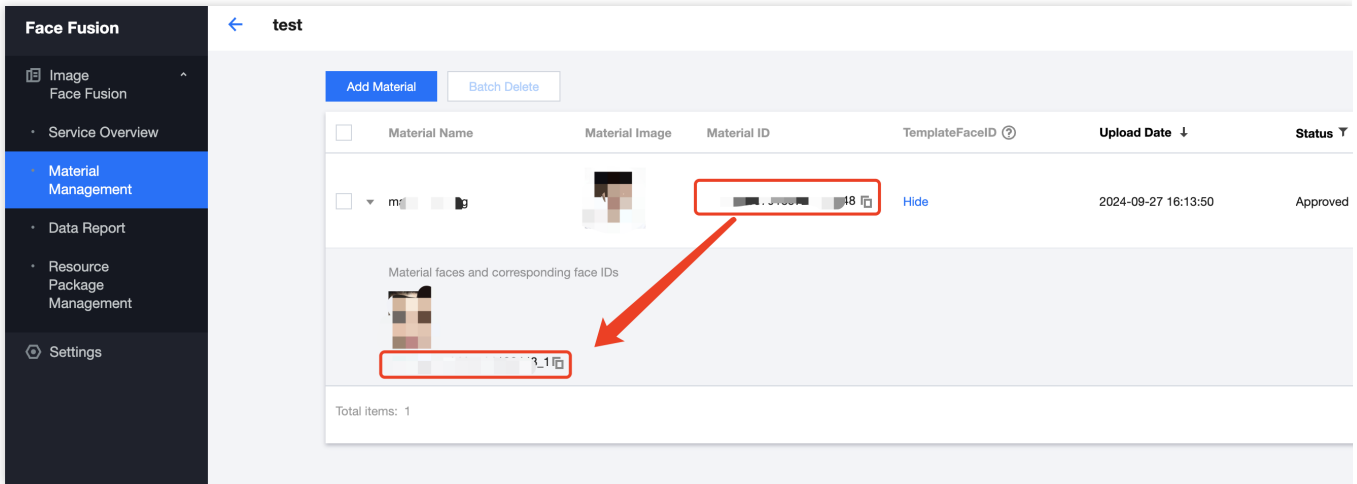
ModelId: Material ID. In the activity list under material management on the [Face Fusion console](#), click material management under operation, you can view the material ID in the list.



MergeInfos.N: User face image and face position information of the material template.

Image or Url: Either Image (base64 image data) or URL must be provided. If both are provided, URL takes precedence.

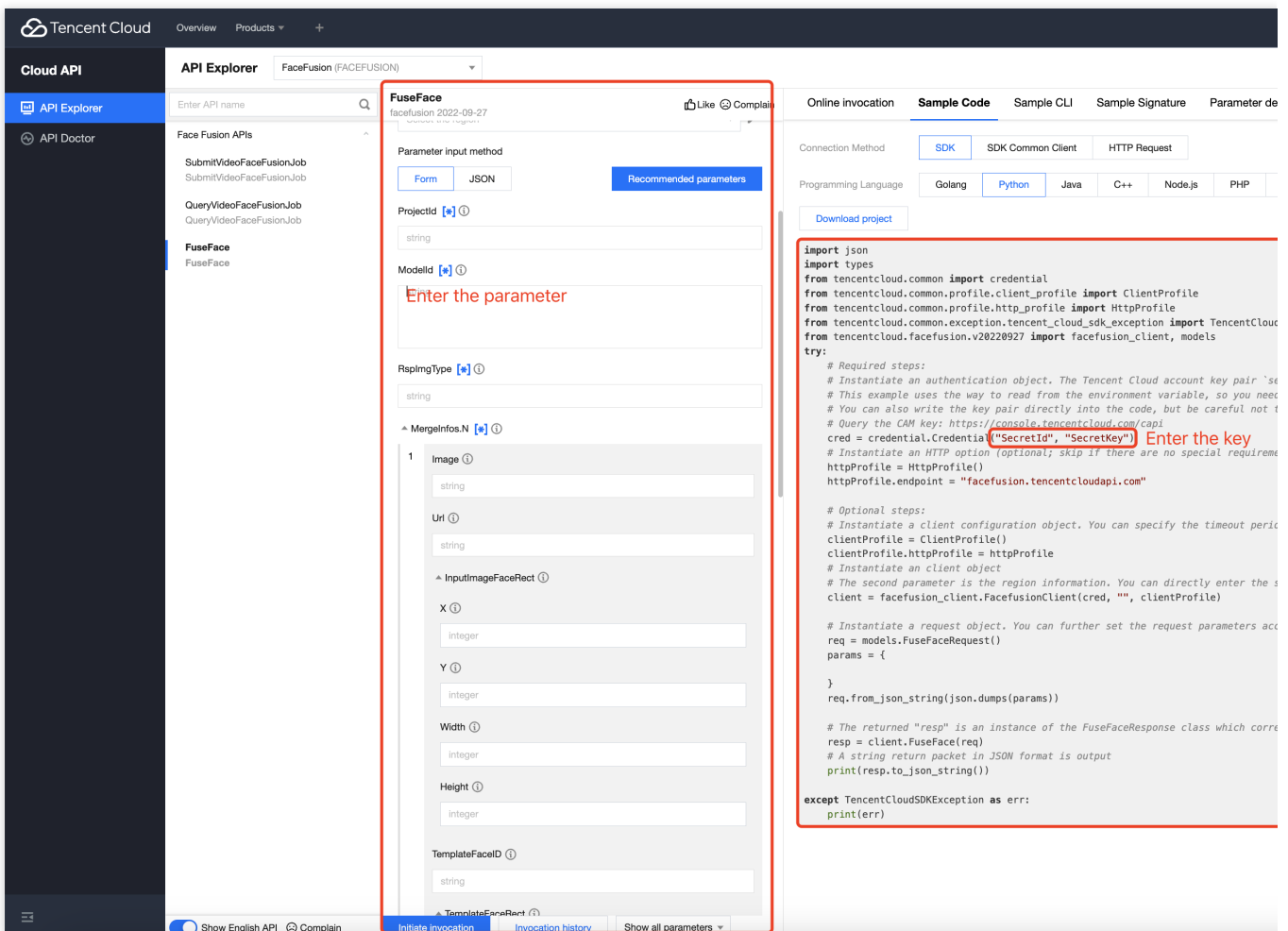
TemplateFaceID: The face ID of the material image. Click view as shown below to see the material face and its corresponding FaceID (specify the face for fusion if there are multiple faces in the material image).



InputImageFaceRect: The face position coordinates (face frame) in the user's image, specifying the user's face image for Face Fusion. If not provided, face detection will be called by default to use the largest face.

RspImgType: Method of returning image (URL or base64), choose one. The URL is valid for 7 days.

2. After the parameters are entered, copy the call example, as shown in the following figure.



Description:

Method of fusing multiple faces:

A maximum of 6 faces in the material image can be fused. If no faces are specified, face detection will be called by default to use the largest face.

If multiple faces need to be fused, click **Add** to continue entering the IDs of the faces to be fused, and fuse them with the user image by specifying TemplateFaceID of the material image.

