

Optical Character Recognition

Getting Started

Product Documentation



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Operation Guide

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Logging in to the console

After account registration and identity verification, you can log in to the Tencent Cloud console.

Activating the service

Log in to the [OCR console](#) to activate the service.

Free tier and purchase

Upon service activation, you will be given 1,000 API calls each month for free. This free tier will be added into your account as a resource package and deducted first during billing. Any usage exceeding the free tier will be pay-as-you-go.

Using OCR

OCR supports the following use methods:

- Try product features with Tencent Cloud OCR Demo
If you are not a developer and have no coding background, use this method to try OCR services.
This method is not suitable for development. Only one image can be recognized at a time.
- Make OCR API calls with [API 3.0 Explorer](#)
If you are a beginner developer who has a basic understanding of HTTP requests and API calls, use this method to try OCR services.
This method allows you to make API calls, verify signatures, generate SDK codes, access APIs, etc.
- Make OCR API calls with SDKs
If you are an experienced developer, you can call OCR APIs with SDKs compiled by Tencent Cloud, which support languages such as Python, Java, PHP, Go, Node.JS, and .Net. You can download the SDK in the corresponding service documentation or through the SDK Center.

Viewing the service usage

Log in to the [OCR console](#) to view the usage of each OCR service.

Quick Integration Guide

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Overview

This guide introduces how to call OCR APIs 3.0 through API 3.0 Explorer, and integrate SDKs in corresponding languages to the project after the OCR service is activated.

Prerequisites

Before calling an OCR API, [apply to activate the corresponding OCR service](#).

After activating the service, go to [API 3.0 Explorer](#) and make an OCR API call as follows.

Directions

1. Select the API you want to call in the left sidebar.

The screenshot displays the Tencent Cloud console interface. At the top, there is a navigation bar with 'Tencent Cloud', 'Overview', 'Products', and 'Cloud Virtual Machine'. Below this is a search bar for services and APIs. The left sidebar lists various services, with 'Optical Character Recognition' highlighted in a red box. A dropdown menu is open, showing 'Card OCR APIs' with 'MLIDCardOCR' selected. The main content area is titled 'MLIDCardOCR' and shows configuration options for a Private Key, SecretId, SecretKey, and Input Parameters. The Input Parameters section includes fields for Region, ImageBase64, ImageUrl, and Retimage.

2. Enter the private key and required input parameters.

Private Key [View Key](#)

SecretId
Please enter SecretId

SecretKey
Please enter SecretKey

More Options

Input Parameters View Only Required Parameters

Region
Please select the region

ImageBase64 [?](#) (Optional)
string

ImageUrl [?](#) (Optional)
string

RetImage [?](#) (Optional)
boolean

- `Region` : region information in the domain name. This parameter determines the access point. For example, `ocr.ap-shanghai.tencentcloudapi.com` means Shanghai is the access point. The common parameter `Region` determines where business resources to be accessed reside. For example, `Region=ap-beijing` means resources in the Beijing region will be accessed. If no region is specified in the domain name, a nearby region will be accessed by default. But if the IP address fails to be resolved, Guangdong region will be accessed by default. You can configure different regions for domain name and common parameter, but this may cause latency. Thus, we recommend selecting the same `Region`, such as `ap-guangzhou` for South China (Guangzhou).

- String will be parsed to Json.

The screenshot displays the Tencent Cloud console for the MLIDCardOCR service. The top navigation bar includes 'Code Generating', 'Online Call', 'Signature generation', 'Parameter Description' (highlighted with a red box), and 'Feedback'. The main interface is split into two panels. The left panel, titled 'Private Key View Key', contains input fields for 'SecretId', 'SecretKey', 'Region' (a dropdown menu), 'ImageBase64' (Optional), 'ImageUri' (Optional), and 'RetImage' (Optional). The right panel, titled 'Parameter Description', provides details for 'ImageBase64' and 'ImageUri'. For 'ImageBase64', it states 'Required: No', 'Type: String', and 'Description: Base64-encoded value of an image. Supported image formats: PNG, JPG, JPEG. GIF is not supported at present. Supported image size: the downloaded image cannot exceed 3 MB in size after being Base64-encoded. The download time of the image cannot exceed 3 seconds.' For 'ImageUri', it states 'Required: No', 'Type: String', and 'Description: URL address of an image. (This field is not supported outside Mainland China) Supported image formats: PNG, JPG, JPEG. GIF is not supported at present. Supported image size: the downloaded image cannot exceed 3 MB in size after being Base64-encoded. The download time of the image cannot exceed 3 seconds. It is recommended to store the image in Tencent Cloud, as a Tencent Cloud URL can guarantee higher download speed and stability. The download speed and stability of non-Tencent Cloud URLs may be low.'

3. Select the language to generate codes.

The codes will be generated according to parameter values you entered on the left. To modify input parameters, you need to change parameter values on the left to generate codes again.

4. Integrate SDKs to the project.

See SDK Usage Guide on the top right to integrate SDKs to the project and call APIs with codes generated in **Step**

3.

The screenshot shows the 'Code Generating' tab in the Tencent Cloud console for the MLIDCardOCR service. The left sidebar contains configuration options for SecretId, SecretKey, and Input Parameters. The main area displays a Java code snippet for generating the MLIDCardOCR request.

```

import com.tencentcloudapi.common.Credential;
import com.tencentcloudapi.common.profile.ClientProfile;
import com.tencentcloudapi.common.profile.HttpProfile;
import com.tencentcloudapi.common.exception.TencentCloudSDKException;

import com.tencentcloudapi.ocr.v20181119.OcrClient;

import com.tencentcloudapi.ocr.v20181119.models.MLIDCardOCRRequest;
import com.tencentcloudapi.ocr.v20181119.models.MLIDCardOCRResponse;

public class MLIDCardOCR
{
    public static void main(String [] args) {
        try{

            Credential cred = new Credential("", "");

            HttpProfile httpProfile = new HttpProfile();
            httpProfile.setEndpoint("ocr.tencentcloudapi.com");

            ClientProfile clientProfile = new ClientProfile();
            clientProfile.setHttpProfile(httpProfile);

            OcrClient client = new OcrClient(cred, "", clientProfile);

            String params = "{}";
            MLIDCardOCRRequest req = MLIDCardOCRRequest.fromJsonString(params, MLIDCardOCRRequest.class);

            MLIDCardOCRResponse resp = client.MLIDCardOCR(req);

            System.out.println(MLIDCardOCRRequest.toJsonString(resp));
        } catch (TencentCloudSDKException e) {
            System.out.println(e.toString());
        }
    }
}

```

Demo (recommended)

```

const tencentcloud = require("../..../tencentcloud-sdk-nodejs");
const OcrClient = tencentcloud.ocr.v20181119.Client;
const models = tencentcloud.ocr.v20181119.Models;
const Credential = tencentcloud.common.Credential;
const ClientProfile = tencentcloud.common.ClientProfile;
const HttpProfile = tencentcloud.common.HttpProfile;
Credential cred = new Credential("secretId", "secretKey");
let httpProfile = new HttpProfile();
let clientProfile = new ClientProfile();
/*
We recommend using V3 authentication, which is required if the request size exceeds 1 MB. Except for Node.js, SDKs in all other languages support V3.
clientProfile.signMethod = "TC3-HMAC-SHA256";
*/
clientProfile.httpProfile = httpProfile;
let client = new OcrClient(cred, "ap-guangzhou", clientProfile);
let req = new models.IDCardOCRRequest();
req.ImageUrl = "[https://test.jpg] (https://test.jpg/) ";
req.CardSide = "FRONT";

```

```
let config = {"CropPortrait":true};
req.Config = JSON.stringify(config)
client.IDCardOCR(req, function(errMsg, response) {
  if (errMsg) {
    console.log(error);
    return;
  }
  console.log(response.toJsonString());
});
```

Notes

- When you call APIs with SDKs, take note of the `Region` field for common parameters. We recommend using "ap-guangzhou" for both the domain name and `Region`.
- SecretId/SecretKey generation: [Access Keys -> Manage API Key](#). Currently, only the root account can call OCR APIs. They will be available to sub-accounts soon.
- For Base64-encoded image or video, remove the `data:image/jpg;base64,` prefix and the line break `\n`.
- If the following request result appears, configure the signature type manually:

```
[TencentCloudSDKException]message:AuthFailure.SignatureFailure-The provided credentials
could not be validated because of exceeding request size limit, please use new
signature
method `TC3-HMAC-SHA256`. requestId:719970d4-5814-4dd9-9757-a3f11ecc9b20
```

Configure the signature type:

```
clientProfile.setSignMethod("TC3-HMAC-SHA256"); // Specifies the signature algorithm, which is HmacSHA256 by default
```

If the API request size exceeds 1 MB, V3 authentication (TC3-HMAC-SHA256) is required. Except for Node.js, SDKs in all other languages support V3.

- API 3.0 SDK supports Node.JS, Python, Java, PHP, Go and .Net. To call APIs with SDKs in other languages such as C++, you need to complete V3 authentication. We recommend using the string signature generation tool in [API](#)

3.0 Explorer for verification.

Code Generating Online Call **Signature generation** Parameter Description Feedback

Signature generation Select the signature version: ✓ API 3.0 Signature V3
API 3.0 Signature V1
API 2.0 Signature

For the API 3.0 signature, please click the "Generate Signature" button below. The system will take the POST request m
he signing process step by step. Finally, you will be provided with a real URL that can be requested by POST.View signature document [🔗](#) **(When the para
meter changes, you need to click the button to regenerate the signature process data)**

[Generate signature](#)