

# Optical Character Recognition

## Getting Started

### Product Documentation



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# Getting Started

## Operation Guide

Last updated : 2022-06-10 14:31:36

### 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

Last updated : 2022-06-10 12:10:17

## 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. On the left, a navigation sidebar lists various services, with 'Optical Character Recognition' highlighted. A secondary menu under 'Card OCR APIs' shows 'MLIDCardOCR' selected. The main panel is titled 'MLIDCardOCR' and includes a 'Private Key' section with input fields for 'SecretId' and 'SecretKey'. Below this is an 'Input Parameters' section with a 'View Only Required Parameters' checkbox and several input fields: 'Region' (a dropdown menu), 'ImageBase64' (Optional, string), 'ImageUrl' (Optional, string), and 'RetImage' (Optional, boolean).

2. Enter the private key and required input parameters.

**Private Key** [View Key](#) 


SecretId


SecretKey


**More Options** 

**Input Parameters**  View Only Required Parameters

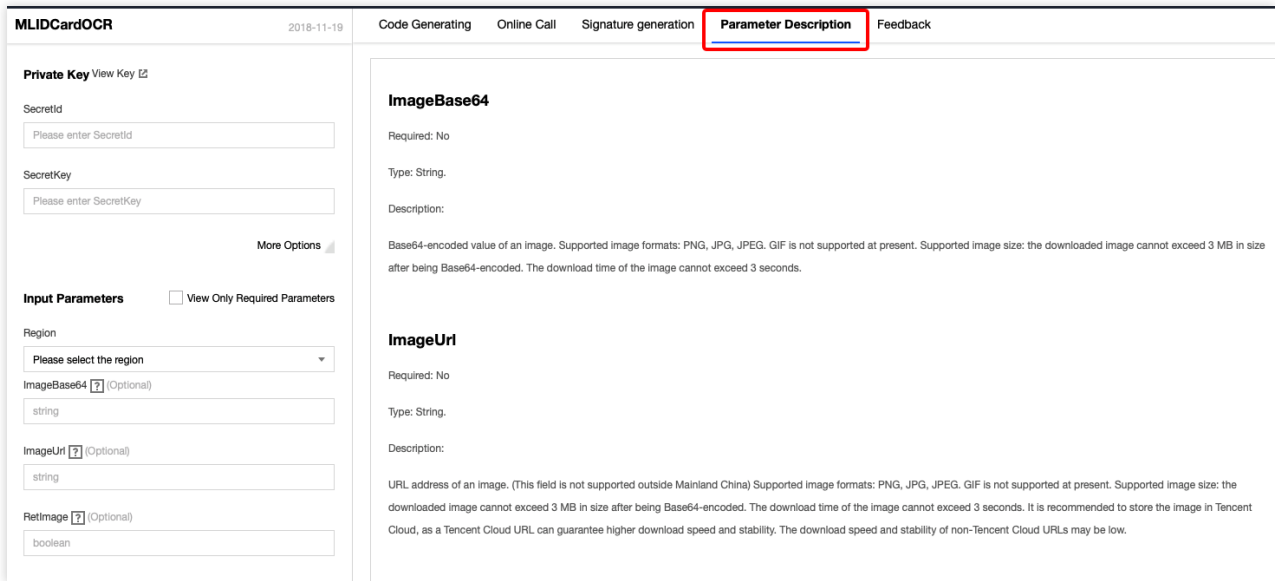
Region

ImageBase64  (Optional)

ImageUrl  (Optional)

RetImage  (Optional)

`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.

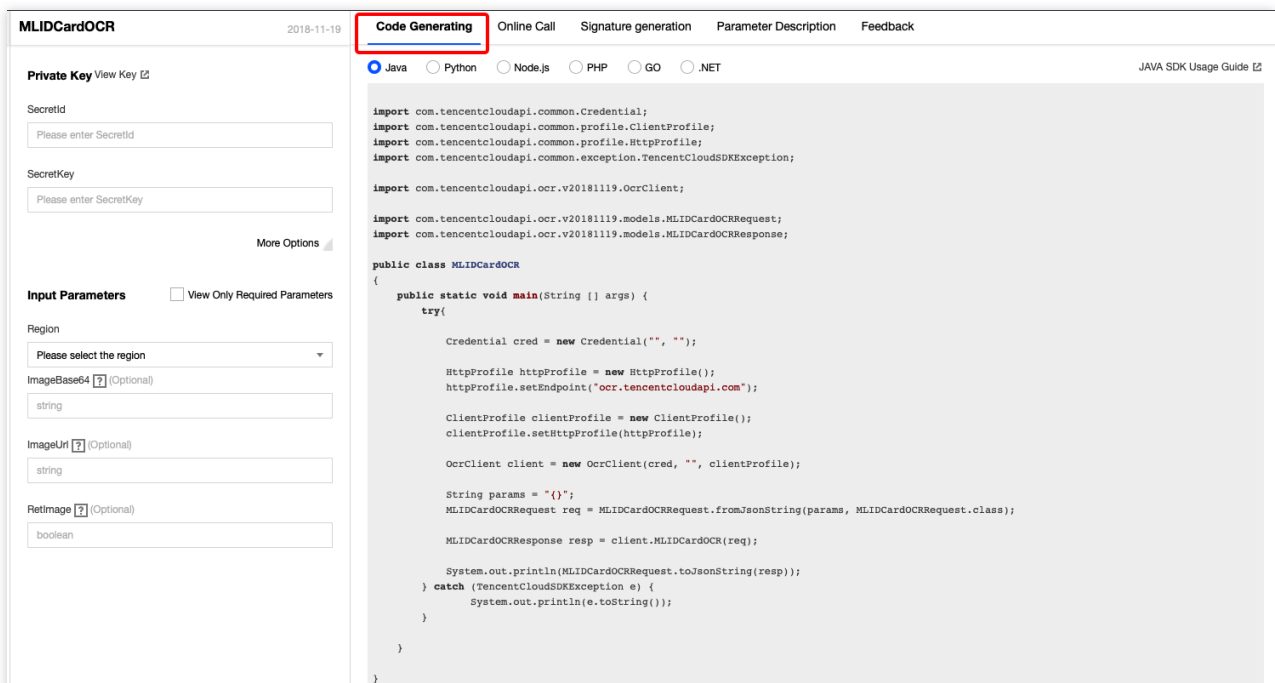


3. Select the language to generate codes.

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**.



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
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/jpeg;base64,` prefix and the line break `\\n`.

If the following request result appears, configure the signature type manually:

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

Configure the signature type:

```
clientProfile.setSignMethod("TC3-HMAC-SHA256"); // Specifies the signature algorithm
```

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.

The screenshot shows the 'Signature generation' tab in the API 3.0 Explorer. The interface includes a navigation bar with 'Code Generating', 'Online Call', 'Signature generation', 'Parameter Description', and 'Feedback'. The main content area has a title 'Signature generation' and a dropdown menu for 'Select the signature version:' with options 'API 3.0 Signature V3' (selected), 'API 3.0 Signature V1', and 'API 2.0 Signature'. Below the dropdown, there is instructional text: 'For the API 3.0 signature, please click the "Generate Signature" button below. The system will take the POST request m... t he signing process step by step. Finally, you will be provided with a real URL that can be requested by POST. View signature document [link] (When the para meter changes, you need to click the button to regenerate the signature process data)'. At the bottom, there is a blue 'Generate signature' button.