

Cloud Infinite

Product Introduction

Product Documentation



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Product Introduction

Overview

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Cloud Infinite (CI) is a professional all-in-one image processing solution provided by Tencent Cloud. It enables users to upload, download, store, process, and recognize images. With a decade of image service experience from operating Qzone photo albums, Tencent Cloud CI offers a variety of features, such as image processing, original image protection, cross-origin resource sharing (CORS), and style preconfiguration.

Features

Basic image processing

The image upload and storage services of CI are based on Cloud Object Storage (COS), which allows you to manage files through the upload and processing APIs of COS. CI also provides a rich set of image processing features including intelligent cropping, lossless compression, watermarking, and format conversion.

Image management

Original image protection

The original image protection feature of CI protects images by limiting the access to these images only through URLs containing style names. It also embeds your images with unique tags to prevent unauthorized use of your images by other users or institutions.

Origin-pull configuration

Origin-pull enables seamless content migration from origin servers to Tencent Cloud Object Storage without interrupting access.

Domain name management

You can utilize domain name adjustment to choose whether to enable CDN acceleration, set your own custom domain names, and configure hotlink protection to prevent image traffic misdirection.

Application Scenarios

CI is applicable wherever images are required in apps and on websites.

Social networking (such as Momo and Girlfriends)

For social apps that need to handle massive user-uploaded images, CI provides a rich set of image processing features including cropping, compression, and watermarking to fit various business scenarios.

E-commerce (such as Vipshop and MIA)

For e-commerce apps, CI provides image content detection to automatically review images uploaded by merchants and detect illegal content.

Gaming (such as Arena of Valor and Happy Poker)

When users upload custom avatars in gaming apps, CI can detect illegal and inappropriate content in real time, and offers basic processing features such as cropping and compression.

Financial services (such as WeBank and Tenpay)

For financial service apps, CI can accurately detect important information in ID documents to improve the efficiency of identity verification. It also can be used to conduct real-name verification for users.

Logistics (such as SF Express and ZTO Express)

Logistics plays an important role in the rapid development of e-commerce. However, the traditional manual recognition of waybill information is costly and inefficient. CI's intelligent waybill recognition allows for quick and accurate recognition of sender and receiver information on waybills to speed up package information input and transit.

This comprehensive image solution enables developers to provide quick image services to their users, and gives them the scalability to meet fast-changing business needs based on the elastic scheduling capability of Tencent Cloud services.

Regions and Domain Names

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Overview

Tencent Cloud's Cloud Infinite (CI) supports multi-region storage, and different regions have different default access domain names. The region you initially selected for the bucket cannot be modified. You can select a region closest to your business location to speed up object upload and download.

Note :

- After a bucket is created, the default domain will be generated. To view the URL, you can go to the [CI console](#), click the name of the desired bucket, and click **File Management** > **Details**.
- Regions and domains in the following table are COS domains. Old users can still use CI domains.
- `BucketName` is the name you set for your bucket upon creation. To view its value, you can go to the [CI console](#), click the name of the bucket, and choose the **Bucket Configuration** tab.
- `APPID` is one of the account identifiers assigned by the system after you successfully applied for the Tencent Cloud account. It can be viewed at [Tencent Cloud console](#) > **Account Information**.

Regions in the Chinese Mainland

Region	Abbreviation	Default Domain (Upload/Download/Management)
Beijing	ap-beijing	<BucketName-APPID>.cos.ap-beijing.myqcloud.com
Nanjing	ap-nanjing	<BucketName-APPID>.cos.ap-nanjing.myqcloud.com
Shanghai	ap-shanghai	<BucketName-APPID>.cos.ap-shanghai.myqcloud.com
Guangzhou	ap-guangzhou	<BucketName-APPID>.cos.ap-guangzhou.myqcloud.com
Chengdu	ap-chengdu	<BucketName-APPID>.cos.ap-chengdu.myqcloud.com
Chongqing	ap-chongqing	<BucketName-APPID>.cos.ap-chongqing.myqcloud.com

Regions in Hong Kong (China) and Outside the Chinese Mainland

Region	Abbreviation	Upload Domain	Download Domain
Hong Kong	ap-hongkong	Not supported	<BucketName-APPID>.cos.ap-hongkong.myqcloud.com
Singapore	ap-singapore	<BucketName-APPID>.cos.ap-singapore.myqcloud.com	<BucketName-APPID>.cos.ap-singapore.myqcloud.com
Mumbai	ap-mumbai	<BucketName-APPID>.cos.ap-mumbai.myqcloud.com	<BucketName-APPID>.cos.ap-mumbai.myqcloud.com
Seoul	ap-seoul	<BucketName-APPID>.cos.ap-seoul.myqcloud.com	<BucketName-APPID>.cos.ap-seoul.myqcloud.com
Bangkok	ap-bangkok	<BucketName-APPID>.cos.ap-bangkok.myqcloud.com	<BucketName-APPID>.cos.ap-bangkok.myqcloud.com
Tokyo	ap-tokyo	<BucketName-APPID>.cos.ap-tokyo.myqcloud.com	<BucketName-APPID>.cos.ap-tokyo.myqcloud.com
Western U.S. (Silicon Valley)	na-siliconvalley	Not supported	<BucketName-APPID>.cos.na-siliconvalley.myqcloud.com
Eastern U.S. (Virginia)	na-ashburn	<BucketName-APPID>.cos.na-ashburn.myqcloud.com	<BucketName-APPID>.cos.na-ashburn.myqcloud.com
Toronto	na-toronto	<BucketName-APPID>.cos.na-toronto.myqcloud.com	<BucketName-APPID>.cos.na-toronto.myqcloud.com
Frankfurt	eu-frankfurt	Not supported	<BucketName-APPID>.cos.eu-frankfurt.myqcloud.com
Moscow	eu-moscow	<BucketName-	<BucketName-

		APPID>.cos.eu-moscow.myqcloud.com	APPID>.cos.eu-moscow.myqcloud.com
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Examples

Assume that you have logged in to the CI console as the root account (APPID : 1250000000), clicked **Bucket Management** > **Bind Bucket** to create a bucket named `examplebucket` residing in the Guangzhou region. The domain for CI processing will be as follows:

```
examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
```

Note :

- `examplebucket-1250000000`: indicates that the bucket is owned by the user whose APPID is `1250000000`. APPID is a fixed and unique ID assigned by the system when you successfully applied for the Tencent Cloud account. You can view it at [Account Information](#).
- `cos`: indicates COS domains. On the other hand, `pic` and `picgz` indicate CI domains.
- `ap-guangzhou`: abbreviation of the region
- `myqcloud.com`: indicates Tencent Cloud domain (fixed)

Features

Feature Overview

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Cloud Infinite (CI) provides the following features:

Service	Feature	Description
Basic image processing service	Scaling	Proportional scaling, scale an image based on the target width and height, and more
	Cropping	Cut (regular cropping), crop (scaling and cropping), iradius (inscribed circle cropping), rradius (rounded corner cropping) and scrop (smart cropping)
	Rotation	Adaptive rotation and common rotation
	Format conversion	Format conversion, GIF format optimization, and progressive display
	Quality conversion	Perform quality conversion on images in JPG and WEBP formats
	Gaussian Blurring	Blur images
	Sharpening	Sharpen images
	Watermarking	Add image watermarks and text watermarks
	Obtaining image information	Basic information , EXIF information , and the average hue
	Removing meta information	Including EXIF information
	Quick thumbnail template	Perform quick format conversion, scaling, and cropping to generate thumbnails
Setting styles	Set image styles to manage images for different purposes	
Security	Hotlink	Provide security policies such as signed download and the

policies

protection

blocklist/allowlist for domain name control

Basic Image Processing Service

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CI provides multiple basic image processing features that facilitate various scenarios. For the supported basic image processing features, please see [Overview](#).

Note :

- You can use APIs to process images during download. In addition, CI's [Pipeline Operator](#) allows you to perform multiple processing on images in sequence.
- Currently, CI offers a 10 TB/month free tier for basic image processing. Exceeded usage will be charged at regular rates.

Usage

Using CI console

You can process images using the CI console. For more information, please see [Setting Styles](#).

Using RESTful APIs

You can process images using the APIs provided by CI. For more information, please see the API Documentation of [Basic Image Processing](#).

Restrictions

- Format: Currently, processing JPG, BMP, GIF, PNG, and WebP, as well as decoding and processing HEIF are supported.
- Size: The input image cannot be larger than 20 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
- Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

Rules and Restrictions

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Category	Feature	Rule and Restriction
Basic image processing	Common restriction	<ul style="list-style-type: none"> Supported format: JPG, BMP, GIF, PNG, WebP, as well as HEIF decoding and processing Supported size: The input image cannot exceed 20 MB, with its width and height not exceeding 30,000 pixels and the total number of pixels not exceeding 250 million. The width and height of an output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million. Maximum number of frames (for GIF): 300
	Format Conversion	Supports JPG, BMP, GIF, PNG, WebP (default value: format of the input image). Converting GIF into HEIF is not supported.
	Quality Conversion	Supports JPG and WebP only.
	Progressive Display	Supports JPG only. If the format of the output image is not JPG, this parameter will be ignored.
	Pipeline Operator	Performs multiple operations on an image in sequence. Currently, up to 10 layers of pipelines are supported.
Advanced features	Guetzli Image Compression	Supports only JPG images whose quality is larger than 70 and the total number of pixels is smaller than 4 million.
	Image Advanced Compression	<ul style="list-style-type: none"> Format: supports converting JPG, PNG, GIF, WebP, and other formats into TPG or HEIF. Size: The input image cannot exceed 20 MB, with its width and height not exceeding 30,000 pixels and the total number of pixels not exceeding 250 million. The width and height of an output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million. Maximum number of frames (for GIF): 300
	Blind watermarking	<ul style="list-style-type: none"> Adding blind watermark to animated images such as GIF is not supported. Width or height of the image watermark cannot be larger than 1/8 of the input image.

		<ul style="list-style-type: none"> A text watermark can contain only numbers (0–9) and English letters (A–Z, a–z).
Media processing	Video Processing	Supports AVI, MP4, MKV, FLV, HLS, TS, MP3, AAC, FLAC, and more.
Content moderation	Image Moderation	Supports PNG, JPEG, JPG, BMP, WebP, and GIF. An image cannot be larger than 10 MB. To ensure recognition accuracy, the image resolution should not be lower than 256x256.
	Video Moderation	Supports MP4, AVI, MKV, WMV, RMVB, FLV, and M3U8. A video cannot be larger than 5 GB and the number of frames cannot be more than 100 thousand.
	Audio Moderation	<ul style="list-style-type: none"> Supports MP3, WAV, AAC, FLAC, AMR, 3GP, M4A, WMA, OGG, and APE. Audio bitrate: 128–256 kbps Audio size: smaller than 600 MB Maximum duration: 3 hours
	Text Moderation	Supports TXT files not larger than 1 MB only.
Content recognition	QR Code Recognition, Image Label Recognition	Supports PNG, JPEG, and JPG. An image cannot be larger than 3 MB and the resolution should be higher than 50x50.
	Speech Recognition	<ul style="list-style-type: none"> Supports Mandarin, English, and Cantonese. Supported format: WAV, MP3, M4A An audio file cannot be longer than 5 hours or larger than 512 MB.
	Face Filter	A Base64-encoded image cannot be larger than 5 MB. PNG, JPG, JPEG, and BMP are supported, while GIF is not supported. To use portrait segmentation, the image resolution must be lower than 2000x2000.
	ID Card Recognition	A Base64-encoded image cannot be larger than 7 MB, and a resolution higher than 500x800 is recommended. Supported formats are PNG, JPG, JPEG, and BMP. It is recommended that the ID card should occupy over 2/3 of the image.
	Face ID	The Base64-encoded video cannot be larger than 8 MB. Supported formats are MP4, AVI, and FLV.
File	File Preview	1. Supported format:

preview		<ul style="list-style-type: none"> • Presentation file: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM • Text file: DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM • Form file: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS • Other file: PDF, LRC, C, CPP, H, ASM, S, Java, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML <p>2. Supports previewing files within 200 MB with no more than 5,000 pages.</p>
	Privacy Compliance Protection	<p>Supported format:</p> <ul style="list-style-type: none"> • MS office file: DOC, DOCX, PPT, PPTX, XLS, XLSX, RTF • WPS file: WPS, DPS, ET • PDF • Plain text file: TXT, XML, SLK • HTML, MSG • Email: EML, PST