

Content Delivery Network

Best Practice

Product Documentation



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Contents

Best Practice

- CDN - CVM

 - Overview

 - Via CDN Console

- CDN - COS

 - Overview

 - Via CDN Console

 - Via COS Console

- Configuring CNAME via DNSPod

- Regularly Storing CDN Logs

Best Practice

CDN - CVM

Overview

Last updated : 2020-08-17 11:48:33

This document describes how to use Tencent Cloud CDN to accelerate access to CVM.

Content Delivery Network (CDN)

By delivering resources to high numbers of globally deployed cache nodes and leveraging Tencent's independently developed GSLB scheduling system, CDN enables nearby access to required resources for end users. This reduces access delays caused by network congestion, distance, and ISP issues and effectively improves the download speed, responsiveness, and user experience.

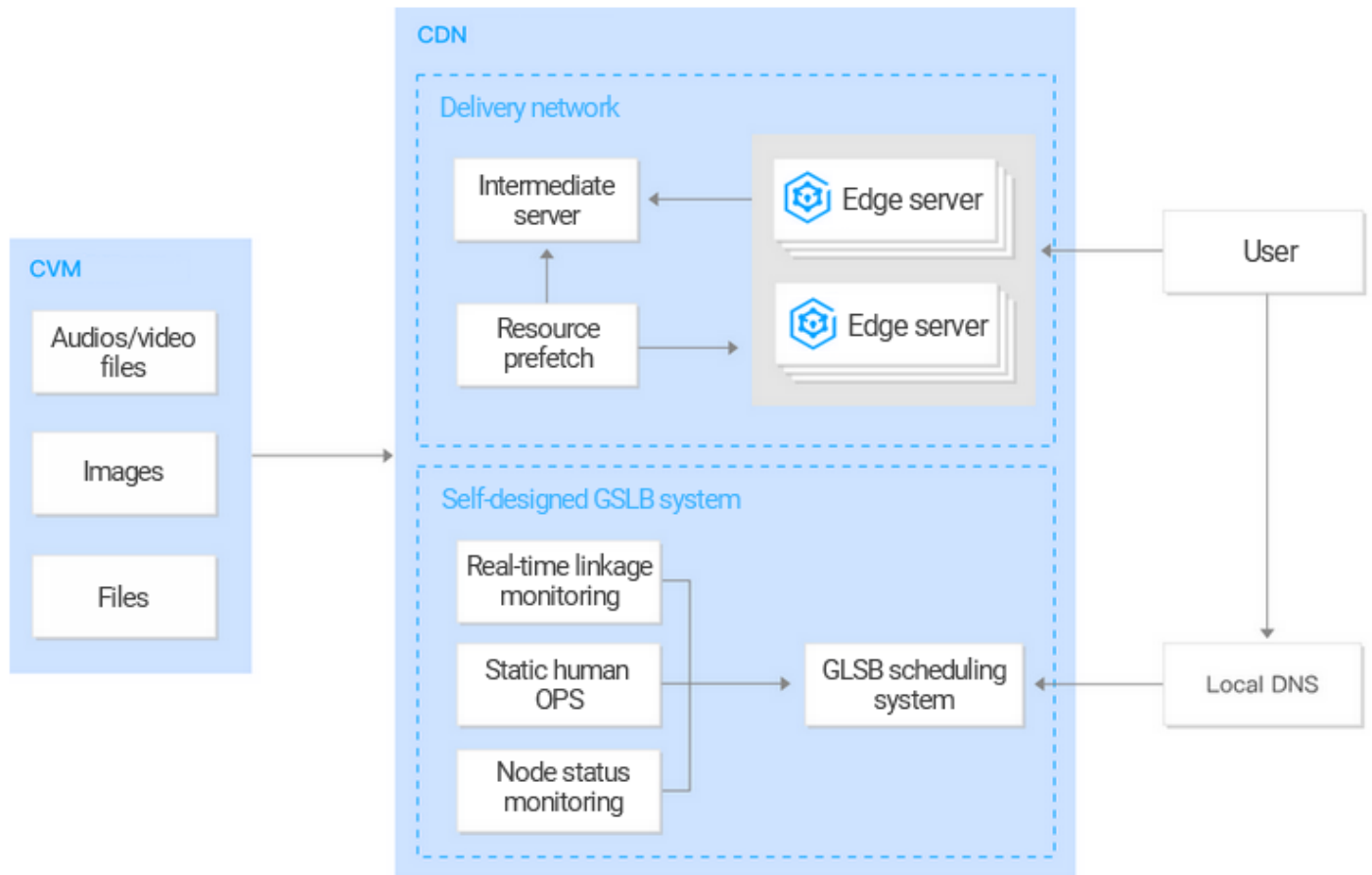
Cloud Virtual Machine (CVM)

CVM provides scalable virtual computing resources in the cloud. You can launch CVM instances on different operating systems and load them into your custom application environment. As your business needs change, you can scale your computing resources in real time and adjust your CVM instance specifications accordingly.

Content Delivery Practices

CDN can accelerate global delivery of static resources such as massive amounts of audio/video files, images, and files stored in CVM. With CDN's global cache nodes and scheduling capabilities, frequently requested resources can be delivered to edge servers in advance. When they are accessed or downloaded by end users, the cached resources on a nearby node will be returned.

CDN acceleration for CVM not only reduces the pressure on the origin server, transfer delay, and bandwidth costs, but also significantly improves the service availability.



⚠ Note :

Tencent Cloud Enterprise Content Delivery Network (ECDN) can be used to accelerate the delivery of dynamic/static resources or dynamic resources stored in CVM.

Implementation

CDN acceleration can be implemented for CVM in the following way:

Bind the CDN acceleration domain name to the CVM domain name or IP address and enable the CDN acceleration service. For detailed directions, please see [Implementation via CDN Console](#).

Via CDN Console

Last updated : 2021-11-25 15:11:56

This document describes how to accelerate access to CVM instances through CDN console.

Prerequisite

1. You have signed up for a Tencent Cloud account and verified your identity.
2. You have activated the CVM service. For more information, see [Getting started with CVM](#).

Directions

Creating a Distribution

Log in to the [CDN console](#), click **Domain Management** in the left sidebar to enter the domain name management page, and click **Create a Distribution**.

Part 1: Domain name configuration

Enter your service domain name in the domain field and select the project, region, and service type:

Configuration description:

Configuration	Description
Domain Name	<ol style="list-style-type: none">1. The domain name can contain up to 81 characters.2. ICP filing is required for domain names running in the Chinese mainland.3. Sub-domains (a.test.com or a.b.test.com) and wildcard domain names (*.test.com or *.a.test.com) are supported.4. You need to verify the domain name ownership when connecting a wildcard domain name or a connected domain name. <p>Notes:</p> <ol style="list-style-type: none">1. If a wildcard domain name is connected here, its sub-domains and second-level wildcard domain names cannot be connected by any other accounts.2. Domain names in the format of <code>*.test.com</code> and <code>*.a.test.com</code> cannot be configured at the same time.3. Domain names containing underscores and punycode-converted Chinese characters are now available.4. Malicious or high-risk domain names cannot be connected to. For more information, see Use Limits.

Configuration	Description
Project	Project is a set of resources shared by all Tencent Cloud products. You can manage it on the Project Management page.
Region	<p>The Chinese mainland: access requests from users all around the world will be scheduled to cache nodes in the Chinese mainland.</p> <p>Outside the Chinese mainland: access requests from user all around the world will be scheduled to cache nodes outside the Chinese mainland.</p> <p>Global: access requests will be scheduled to the nearest optimal node, regardless of whether it's within or outside the Chinese mainland.</p> <p>Notes: Acceleration services in and outside the Chinese mainland are billed separately. For more information on billing policies, see Billing Overview.</p>
Service Type	<p>CDN optimizes acceleration performance based on service type. For the best acceleration result, we recommend selecting the service type similar to that of your actual business.</p> <p>Static acceleration: suitable for small-scale resource acceleration scenarios such as ecommerce, websites, and game images.</p> <p>Download acceleration: suitable for download scenarios such as game installation, source audio/video file download, and mobile phone firmware distribution.</p> <p>Streaming VOD acceleration: suitable for scenarios such as online education and VOD.</p>
Internet Protocol	<p>IPv4: nodes can be accessed only through IPv4 addresses.</p> <p>IPv4+IPv6: nodes can be accessed through both IPv4 and IPv6 addresses. Only when this option is selected can an IPv6 origin server be configured.</p> <p>Note: IPv6 is only supported in the Chinese mainland.</p>

Part 2: Origin server configuration

Configure the origin. When the requested resource is not cached on CDN nodes, CDN will forward the request to the origin, pull the requested resource and cache it on CDN nodes.

Configuration description:

Configuration	Description
---------------	-------------

Configuration	Description
Origin Server Type	<p>Customer Origin: select this if you already have your own business server. (i.e., origin server).</p> <p>Tencent Cloud COS: if resources are stored in COS, the bucket can be directly selected as the origin server.</p>
Origin Server Address	<p>Customer Origin:</p> <ol style="list-style-type: none"> Multiple IPs can be configured as the origin server, which will be polled during origin-pull. If multiple IPs are used, you can configure weighted origin-pull in the format of <code>IP:port:weight(1 - 100)</code> . The port can be omitted and the format becomes <code>IP::weight</code> . You can configure one domain name as the origin server, which should be different from the business acceleration domain name. <p>Tencent Cloud COS:</p> <ol style="list-style-type: none"> Select from the drop-down list the bucket to be configured as the origin server. If the bucket is private read/write, first grant CDN access to the bucket. Otherwise, origin-pull will fail.
Origin-pull Protocol	<p>This can be selected based on the protocols supported by the origin server:</p> <p>HTTP: HTTP/HTTPS access requests use HTTP origin-pull.</p> <p>HTTPS: HTTP/HTTPS access requests use HTTPS origin-pull (the origin server must support HTTPS access).</p> <p>Follow protocol: HTTP access requests use HTTP origin-pull, while HTTPS access requests use HTTPS origin-pull (the origin server must support HTTPS access).</p>
Origin Domain	<p>This refers to the domain name accessed on the origin server by a CDN node during origin-pull.</p> <p>If a subdomain name is connected, it will be the same as the acceleration domain name by default and can be customized.</p> <p>If a wildcard domain name is connected, it will be the actual access subdomain name by default and can be customized.</p>

Part 3: Service configuration

Configure the node acceleration service:

Configuration description:

Configuration	Description
---------------	-------------

Configuration	Description
Ignore Parameter	<p>A node caches resources by following the <code>Key-Value</code> mapping, where <code>Key</code> is the resource URL.</p> <p>If "Ignore Query String" is enabled, parameters after "?" in the URL will be ignored. Otherwise, <code>Key</code> will be a complete resource URL.</p> <p>This feature is disabled for static acceleration and enabled for download and streaming media VOD acceleration by default. For more information, see Cache Key Rule Configuration.</p>
Range GETs	<p>This specifies whether to process partial requests during origin-pull. It can be enabled only if the origin server supports Range GETs. For more information, see Range GETs Configuration.</p> <p>This feature is enabled for COS origin by default</p>
Cache Configuration	<p>This specifies node cache validity configuration. The cache expiration time for all files is 30 days by default.</p> <p>The configured cache validity is the longest possible time, the actual cache validity is related to the resources on nodes. For more information, see Node Cache Validity Configuration (Legacy).</p>

Completing the configuration

After entering all configuration items on **Create a Distribution** page, click **Submit** to add a domain name and wait for the domain name configuration to be delivered over the entire network, which usually takes 5 to 10 minutes.

Configuring CNAME

After successfully adding a domain name, You can view the acceleration CNAME assigned by CDN on the **Domain Management** page. You need to add a CNAME record for the domain name through your DNS service provider (such as DNSPod). Acceleration services will become available after **the DNS configuration takes effect**. For more information, see [CNAME Configuration](#).

Note :

According to regulations, if the origin server is at an accelerated domain name of Tencent Cloud CVM, the domain name configured for the host header should obtain an ICP filing through Tencent Cloud. For more information, see [Host header configuration](#).

CDN - COS

Overview

Last updated : 2020-12-02 10:12:15

This document describes how to use Tencent Cloud CDN to accelerate access to COS.

Content Delivery Network (CDN)

By delivering resources to high numbers of globally deployed cache nodes and leveraging Tencent's independently developed GSLB scheduling system, CDN enables nearby access to required resources for end users. This reduces access delays caused by network congestion, distance, and ISP issues and effectively improves the download speed, responsiveness, and user experience.

Cloud Object Storage (COS)

You can store all your static resources such as static scripts, audio/video files, images, and attachments in standard storage in COS, which features unlimited capacity and high-frequency reads/writes to provide scalable and reliable storage for static resources and reduce pressure on resource servers.

Content Delivery Practices

CDN can accelerate global delivery of static resources such as static scripts, audio/video files, images, and attachments stored in COS. With CDN's global cache nodes and scheduling capabilities, frequently requested resources can be delivered to edge servers in advance. When they are accessed or downloaded by end users, the cached resources on a nearby node will be returned. This reduces both pressure on the origin server as well as

transfer delay, significantly improving the user experience.



⚠ Note :

[Tencent Cloud Enterprise Content Delivery Network \(ECDN\)](#) can be used to accelerate the delivery of dynamic/static resources or dynamic resources stored in COS.

Implementation

CDN acceleration can be implemented for COS in the following two ways. Choose either of them to complete acceleration :

- Point the COS endpoint to the CDN acceleration domain name and bind your domain name to the CDN acceleration domain name (through CNAME). For detailed directions, please see [Implementation via CDN Console](#).
- Bind your domain name to the COS endpoint and enable CDN acceleration. For detailed directions, please see [Implementation via COS Console](#).

Via CDN Console

Last updated : 2021-11-24 15:02:05

This document describes how to accelerate access to resources in COS through CDN.

Prerequisite

1. You have signed up for a Tencent Cloud account and verified your identity.
2. A COS bucket has been created. For more information, see [Creating Buckets](#).

Directions

Creating a Distribution

Log in to the [CDN console](#), click **Domain Management** on the left sidebar to enter the domain name management page, and click **Create a Distribution**.

Selecting COS as origin server

Part 1: Domain name configuration

Enter your business domain name in the domain field, select a project and acceleration type, choose whether to enable IPv6 access, and set a tag:

Configuration description:

Configuration	Description
Region	<p>Chinese mainland: all requests are scheduled to cache nodes in the Chinese mainland.</p> <p>Outside the Chinese mainland: all requests are scheduled to cache nodes outside the Chinese mainland.</p> <p>Global: requests are scheduled to the nearest optimal node.</p> <p>Notes: Acceleration services in and outside the Chinese mainland are billed separately. For more information, see Billing Overview.</p>

Configuration	Description
Acceleration Domain Name	<ol style="list-style-type: none"> The domain name can contain up to 81 characters. ICP filing is required for domain names running in the Chinese mainland. Sub-domains (<code>a.test.com</code> or <code>a.b.test.com</code>) and wildcard domain names (<code>*.test.com</code> or <code>*.a.test.com</code>) are supported. You need to verify the domain name ownership when connecting a wildcard domain name or a connected domain name. <p>Notes:</p> <ol style="list-style-type: none"> If a wildcard domain name is connected here, its sub-domains and second-level wildcard domain names cannot be connected by any other accounts. Domain names in the format of <code>*.test.com</code> and <code>*.a.test.com</code> cannot be configured at the same time. Domain names containing underscores and punycode-converted Chinese characters are now available. <ol style="list-style-type: none"> Malicious or high-risk domain names cannot be connected to. For more information, see Use Limits.
Project	(Optional) Project is a set of resources shared by all Tencent Cloud products. You can manage it on the Project Management page.
Acceleration type	<p>CDN optimizes acceleration performance based on service type. For better acceleration effect, we recommend selecting the acceleration type similar to that of your actual business.</p> <p>Static acceleration: applicable to small-scale resource acceleration scenarios such as e-commerce, website, and game photos.</p> <p>Download acceleration: applicable to downloading scenarios such as game installation packages, audio and video source file downloads, and mobile phone firmware distribution.</p> <p>On-demand video streaming acceleration: applicable to online education and on-demand video streaming.</p>
IPv6 Access	<p>(Optional) CDN nodes support IPv4 access by default. IPv6 access will be supported after it is enabled.</p> <p>Note: IPv6 access is only available in the Chinese mainland.</p>
Tag	(Optional) A tag is used to manage resources by category from different dimensions. If the existing tags do not meet your requirements, please go to Tag .

Part 2: Origin configuration

Configure the origin. When the requested resource is not cached on CDN nodes, CDN will forward the request to the origin, pull the requested resource and cache it on CDN nodes.

- Select **COS** from the **Origin Type** drop-down list under **Domain Configuration**.

2. Select an origin-pull protocol based on the support of the origin server.
3. Select a **bucket** for the origin address.
4. Enable **Private Bucket Access**. You should go to **COS-bucket permission management** to authorize the CDN service first. After the service authorization is confirmed, you can manually enable this feature.
5. The default setting is used for **Origin Domain**. No modification is required.

Part 3: Service configuration

Configure the node acceleration service:

Configuration description:

Configuration	Description
Ignore Parameter	<p>A node caches resources by following the <code>Key-Value</code> mapping, where <code>Key</code> is the resource URL.</p> <p>If Ignore Query String is enabled, parameters after "?" in the URL will be ignored before mapping.</p> <p>Otherwise, <code>Key</code> will be a complete resource URL.</p> <p>By default, this feature is enabled for download and on-demand video streaming acceleration, but not for static acceleration.</p>
Range GETs	<p>This specifies whether to process partial requests during origin-pull. It can be enabled only if the origin server supports Range GETs. This feature is enabled for COS origin server by default.</p>
Cache Configuration	<p>This specifies the expiration period of the node cache, which is 30 days for all files by default. The cache validity period is the longest possible validity. The actual validity may be shorter as affected by the available storage capacity of the node.</p> <p>You can set the cache configuration based on origin type.</p>

After entering all configuration items on **Create a Distribution** page, click **Submit** to add a domain name and wait for the domain name configuration to be delivered over the entire network, which usually takes 5 to 10 minutes.

Configuring CNAME

After successfully adding a domain name, you can view the acceleration CNAME assigned by CDN on the **Domain Management** page.

You need to add the CNAME record for the domain name at your DNS service provider (such as DNSPod).

Acceleration services will become available after **the DNS configuration takes effect**. For more details, see

[CNAME Configuration](#).

Recommended Configuration

1. After completing all the settings, prefetch the static resource files in COS to CDN nodes in advance, which will reduce the strain on the origin server and accelerate response and downloading. For more details, see [Prefetch Cache](#).
2. Configure cross-origin access headers. For more details on cross-origin permissions of resources, see [HTTP Response Header](#).
3. If the resource has been modified on your origin server, you are recommended to purge cache before prefetch again. For more details, see [Purge Cache](#).

Via COS Console

Last updated : 2022-02-26 13:53:01

This document describes how to accelerate access to resources in COS through CDN in the COS console.

Prerequisites

1. You have signed up for a Tencent Cloud account and verified your identity.
2. You have activated the CDN service. For more information, see [Configuring CDN from Scratch](#).

Directions

Creating a bucket

For more information on how to create a bucket, see [Creating Buckets](#).

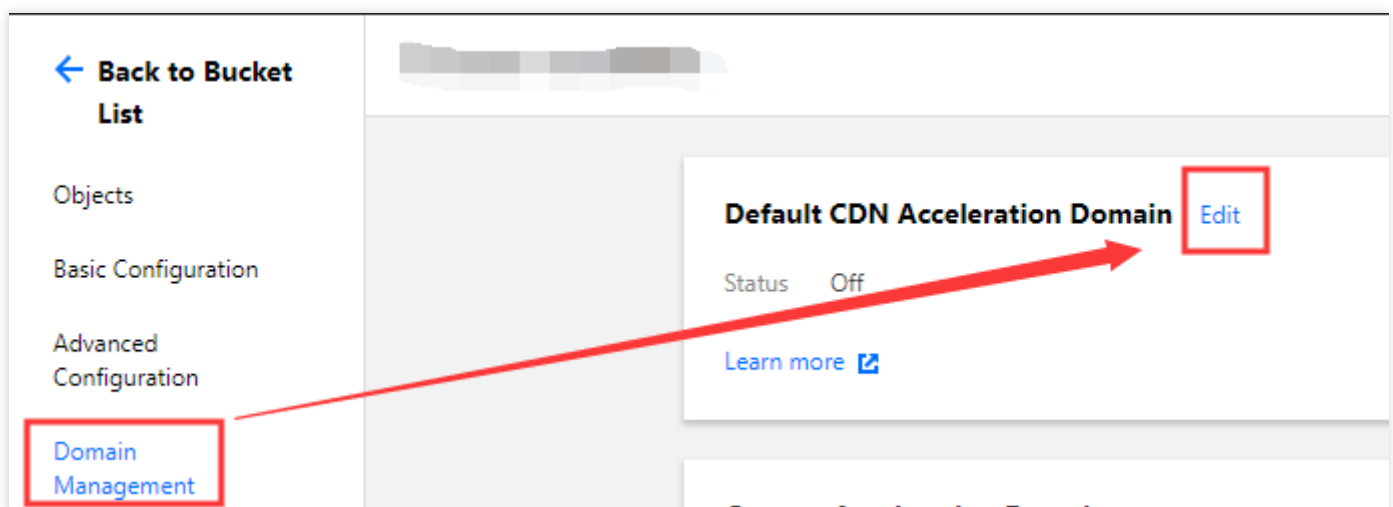
Configuring acceleration

1. After creating a bucket, enter its configuration management page directly. You can also click **Configuration Management** in the "Operation" column of the bucket in the bucket list to enter its configuration management page. Then select **Domain and Transfer**.

2. Enable the **Default CDN Acceleration Domain**.

Generated by the system, the **default CDN acceleration domain** is the domain name passing through CDN cache nodes. You can choose to enable or disable it.

(1) Click **Edit** to manually enable **Default CDN Acceleration Domain**.



(2) Set the default CDN acceleration:

Default CDN Acceleration Domain

Status

Acceleration Domain Name

Acceleration Region Acceleration in Mainland China Acceleration outside Mainland China

Origin Server Type Default origin server Static website origin server ⓘ

Origin Server Domain Name

Origin-pull Authentication [Add CDN Service Authorization](#)

You need to authorize the CDN service and enable origin-pull authorization if the bucket allows private read.
You do not need to authorize the CDN service and enable origin authorization if the bucket allows public read.

[Learn more](#)

Origin Server Type: It is set to **default origin server**. If you have enabled static website for the origin server bucket and want to accelerate content delivery for the static website, select **static website origin server**.

Origin-pull Authentication: For public-read buckets, origin-pull authentication does not need to be enabled. For private-read buckets, CDN service authorization must be added and origin-pull authentication must be enabled manually. For more information, see [Enabling Default CDN Acceleration Domain Names](#).

CDN Authorization: Click **Add CDN Service Authorization** to select and grant CDN access to resources in the bucket.


Are you sure you want to add CDN service authorization? ✕

The following authorization will be added to the Bucket Policy:

Effect Allow

User Tencent Cloud CDN service

Resource The whole bucket Specific resources








Actions Get Object, Head Object, Options Object

I agree to this authorization and understand that the CDN service can access this bucket.

(3) After completing the configuration, click **Save** to activate CDN acceleration.

Default CDN Acceleration Domain

Status	 Deploying
Acceleration Domain Name	 myqcloud.com
Acceleration Region	Acceleration in Mainland China
Origin Server Type	Default origin server
Origin Server Domain Name	 myqcloud.com
Origin-pull Authentication	Enable
CDN Authentication	 Off (please go to CDN Console Authentication Configuration to open token-based authentication and then prevent malicious users from stealing content)

[Learn more](#) 

Note :

For private-read buckets, if both origin-pull authentication and CDN authorization are enabled, signature is not required for access to origin server via CDN, and cached resources in CDN will be distributed over the public network, which will affect data security. Therefore, we recommend that you enable CDN authentication.

3. Enable Custom CDN Acceleration Domain.

You can bind a custom domain name that already has an ICP filing to the bucket and enable CDN acceleration.

Note :

A maximum of 10 custom domain names can be added in the COS console.

(1) Click **Add domain name** in the **Custom CDN Acceleration Domain** module to add a filed custom domain name.

Custom Acceleration Domain

Domain	Acceleration Region	Origin Server Type	Origin-pull Authentication ⓘ	CDN Authentication ⓘ	CNAME	State	Actions
		ⓘ					Add Domain

Note: Make sure that the added domain name has been filed and the corresponding CNAME has been set on the DNS provider website.
For more information or help, please refer to [Learn more](#)

(2) Add the domain name:

Domain: Enter the custom domain name to be bound (e.g. `www.example.com`). Ensure that the domain name has an ICP filing, and a corresponding CNAME has been configured at the DNS service provider. For more information, see [CNAME Configuration](#).

Origin-pull Authentication: for private-read buckets, please manually enable origin-pull authentication to protect the origin server.

After completing the configuration, click **Save**.

Custom Origin Server Domain

Domain	Origin Server Type ⓘ	CNAME	State	Actions
domain	Default origin server	myqcloud.com	Online	Save Cancel

[Add Domain](#)

Note: This bucket provides service in Mainland China. Please make sure that your domain has been filed. Domain that is not filed cannot be bound to the bucket in Mainland China as a custom domain.
Meanwhile, set corresponding CNAME records on DNS service provider website and route to COS.
For more information or help, please refer to [Help of Custom Origin Domain](#)

Note :

For private-read buckets, if both origin-pull authentication and CDN service authorization are enabled, signature is not required for access to origin server via CDN, and cached resources in CDN will be distributed over the public network, which will affect data security. Therefore, we recommend that you enable CDN authentication.

(3) After the configuration is saved, CDN authentication switch will be displayed in the **CDN Authentication** column. You can manually enable CDN authentication for the custom domain name.

CDN Authentication: Timestamp authentication can be configured to prevent stealing by malicious users. You can enable the feature after adding the domain name.

For more information on how to configure CDN acceleration in the COS console, see [Domain Name Management Overview](#).

Recommended Configuration

1. After completing all the settings, go to the [CDN Console](#) and prefetch the static resource files in COS to CDN nodes in advance, which will reduce the strain on the origin server and accelerate response and downloading. For more details, see [Prefetch Cache](#).
2. Configure cross-origin access headers. For more details on cross-origin permissions of resources, see [HTTP Response Header](#).
3. If the resource has been modified on your origin server, you are recommended to purge cache before prefetch again. For more details, see [Purge Cache](#).

Configuring CNAME via DNSPod

Last updated : 2021-09-23 15:09:58

Tencent Cloud CDN and [DNSPod](#) . If a domain name has been hosted on Tencent Cloud DNSPod, you can configure CNAME with a few steps through [CDN console](#). Thus, you can reduce steps, save time and enable CDN acceleration service quickly.

Note :

It is only available on the Chinese site but not on the international site.

Background

After a domain name is connected to CDN, the system will automatically assign a CNAME domain name suffixed with `.cdn.dnsv1.com` which can be viewed on the [Domain Management](#) page on the CDN console. It cannot be accessed directly. Instead, you need to complete the CNAME configuration with the domain name service provider first. When the CNAME record takes effect, you can enable the CDN acceleration service.

Scenarios

Users who use both Tencent Cloud CDN and DNSPod can configure CNAME record to enable the CDN acceleration service.

Operation Guide

Hosting domain names on DNSPod

You need to host the domain name resolution on DNSPod first. For more information, see [Hosting Domain Name Resolution on DNSPod](#).

Using CDN service

Adding a domain name

Log in to [CDN console](#), click **Domain Management** in the left sidebar, and click **Create a Distribution** to add the domain name you want to accelerate. For more information, see [Adding Domain Names](#).

Configuring CNAME

Log in to [CDN console] and go to the [Domain Management] page(<https://console.tencentcloud.com/cdn/domains>). Find the domain name you want to accelerate, and hover over the icon in front of CNAME to view the note. Click **Quick Configure** to configure CNAME.

To enable acceleration service for the selected domain name, we will take following actions to process the resolution record for the domain name in DNSPod.

1. If the domain name has not configured any resolution record, add a Tencent Cloud CDN CNAME record with default line type. The default TTL is 600.
2. If the domain name has configured a resolution record, pause all configured resolution records and add a Tencent Cloud CDN CNAME record with default line type. The default TTL is 600.

Note: pause all configured resolution records for a domain name may affect existing DNS resolution service for the domain name.

1. You can log in to the [DNSPod console](#) to manage resolution records.

Note :

Please ensure current account has management permissions for the corresponding domain name.

If it is a sub-account or collaborator account, please contact master account to get authorization. For example, you should get the write permission and QcloudDNSPodFullAccess permission corresponding to CDN acceleration domain name.

Completing CNAME settings

After submitting resolution for quick configuration, it will take about 1 minute to take effect. You can refresh [Domain Name Management] page(<https://console.tencentcloud.com/cdn/domains>) in CDN console. When the CNAME status changes to activated, you can hover over the icon in front of CNAME to view a note, i.e. acceleration service is in normal operation.

Note :

If you do not want to use this feature, you can configure CNAME by yourself. For more information, see [CNAME Configuration](#).

Others

If you delete the corresponding acceleration domain name, we will not operate your resolution records in DNSPod.
Please modify resolution records as needed.

Regularly Storing CDN Logs

Last updated : 2020-06-02 11:38:03

Regularly Storing CDN Logs

This document describes how to use Tencent Cloud SCF to create two functions in order to regularly store CDN logs into COS.

Key Steps

This document describes how to create the "storage" and "task distribution" functions, use them together, and configure a timer trigger in order to regularly store CDN logs into COS.

There are four key steps:

- A. Prepare the Tencent Cloud API access key and COS information
- B. Create the storage function (cdn-save-log-into-cos)
- C. Create the task function (cdn-dispatch-log-jobs)
- D. Configure the timer

Directions

A. Prepare the following resources before creating the functions

1. Tencent Cloud API access key

Go to the [access key management page](#), query or create a key, and record the following information:

Access credential name (`SecretId`), such as `AKIDRVI54XXn10r58oZpmzbBOnwt47xO1LRv`

Access credential key (`SecretKey`), such as `3t0SYPHRIpjmAAUPfKM8b4yXnff4Aq56`

2. COS bucket

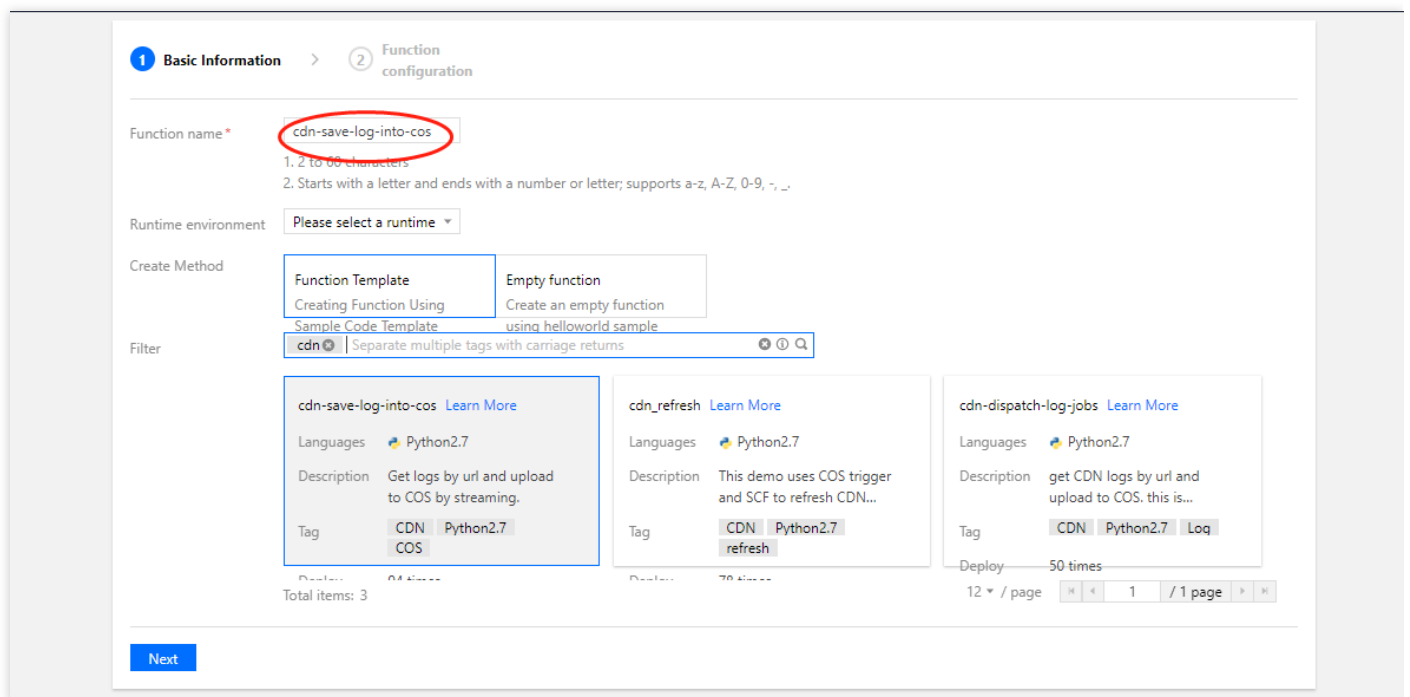
Log in to the [COS Console](#), access the **Bucket List** to query or create a bucket, access the bucket to view its **Basic Information**, and record the following information:

Bucket name (`Bucket Name`), such as `examples-1251002854`

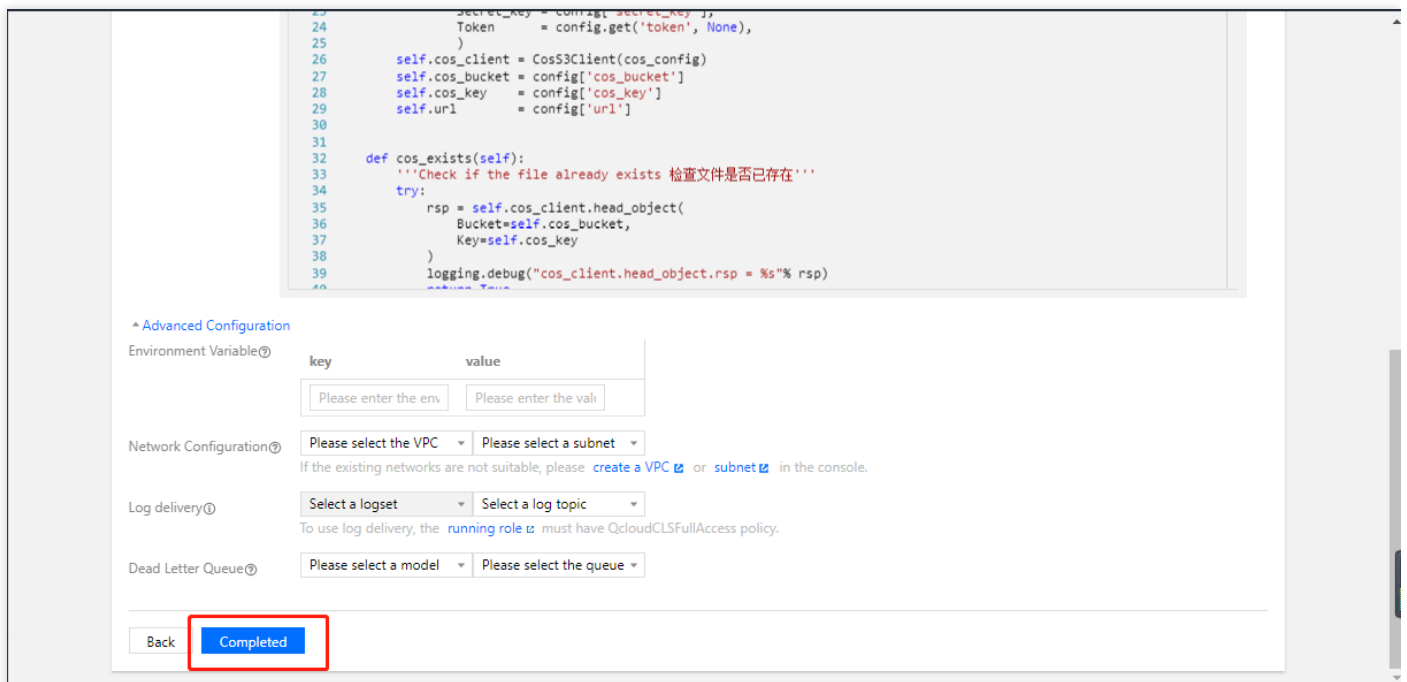
Bucket region (`Region`), such as `ap-chengdu`

B. Create the storage function (cdn-save-log-into-cos)

1. Log in to the [SCF Console](#) and click **Function Service**.
2. Select **Create** and enter **cdn-save-log-into-cos** as the function name.
3. Select **Function Template**, search with the keyword "CDN", select the "cdn-save-log-into-cos" template, and click "Next" to access the function configuration page:

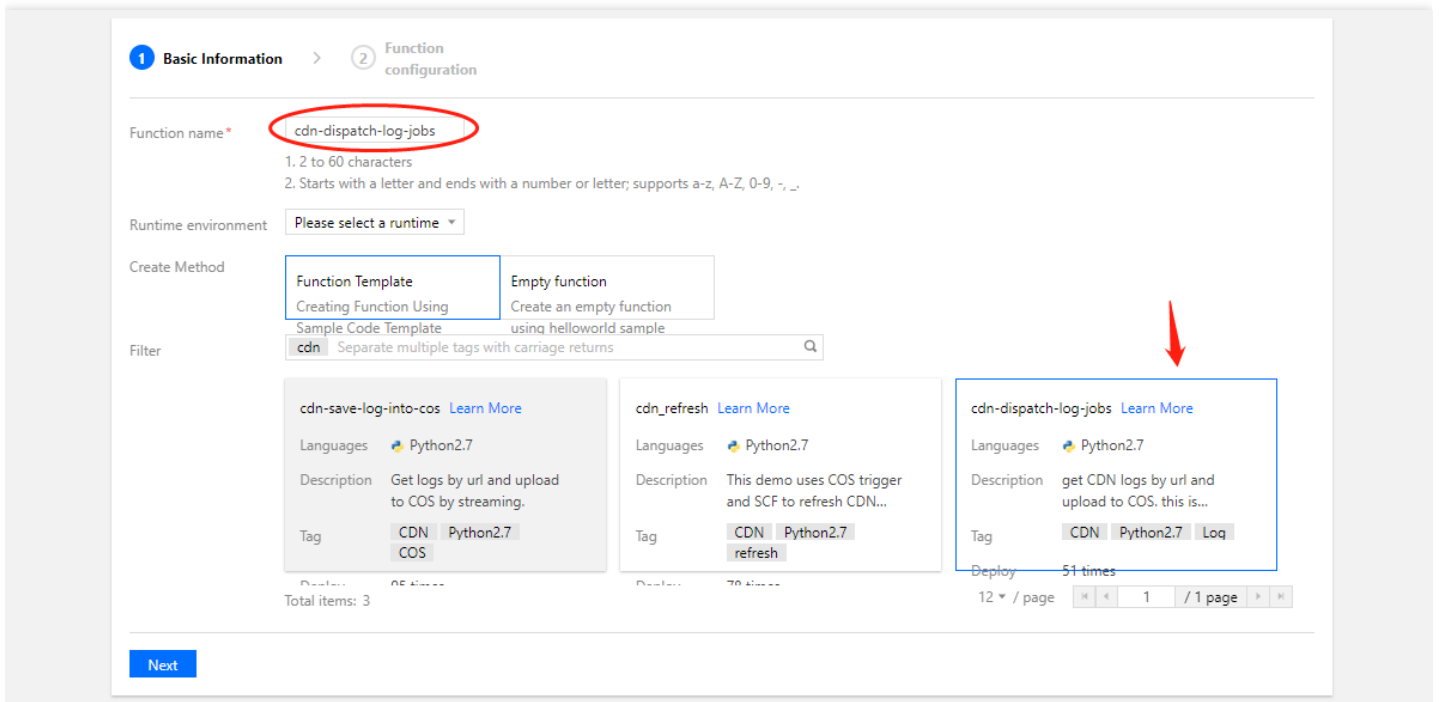


4. Click **Complete** to create the function.



C. Create the task function (cdn-dispatch-log-jobs)

1. Log in to the [SCF Console](#) and click **Create**.
2. Select **Function Template**, search with the keyword "CDN", and select the "cdn-dispatch-log-jobs" template.
3. Enter **cdn-dispatch-log-jobs** as the function name and click "Next".
4. Click **Complete** to create the function.



5. Click the **Function Code** tab. In the code editing box, modify the Python code by entering the following configuration information:

In the `config` variable on row 143, enter the corresponding configuration information:

- Set fields such as `secret_id` , `secret_key` , `cos_region` , `cos_bucket` , and `scf_region` .
- If you set the function name as instructed in step B and do not want to modify it, you can retain the original value of `scf_function` .
- The default value of `cdn_host` is an empty array (i.e., the logs of all domain names under the account will be stored). If needed, you can enter the list of specified domain names.

```

index.py
139 return {"status": "jobs dispatched", "count_url": cnt, "count_host": len(hosts)}
140
141
142 def run_app():
143     config = {
144         'secret_id': 'xxxxxx',
145         'secret_key': 'xxxxxx',
146
147         # The region of COS bucket.
148         'cos_region': 'ap-xxxx',
149         'cos_bucket': 'xxxxxxx-1251002854',
150         'cos_path': '/cdnlog/(host)s/(day)s/(filename)s',
151
152         # SCF configuration, region and function names need to be consistent with the storage
153         # function.
154         'scf_region': 'ap-xxxx',
155         'scf_function': 'cdn-save-log-into-cos',
156
157         # CDN configuration.
158         # If the domain name list is empty, it means to synchronize the logs of all domain
159         # names under the entire account.
160         'cdn_host': [],
161         '#cdn_host': ['tx-cdn.talebook.org', 'js.talebook.org'],
162     }

```

6. Click **Save**.

7. Click **Test** to check whether the code runs properly. After the testing program stops running, you can access the COS Console and check whether the corresponding logs are stored in COS.

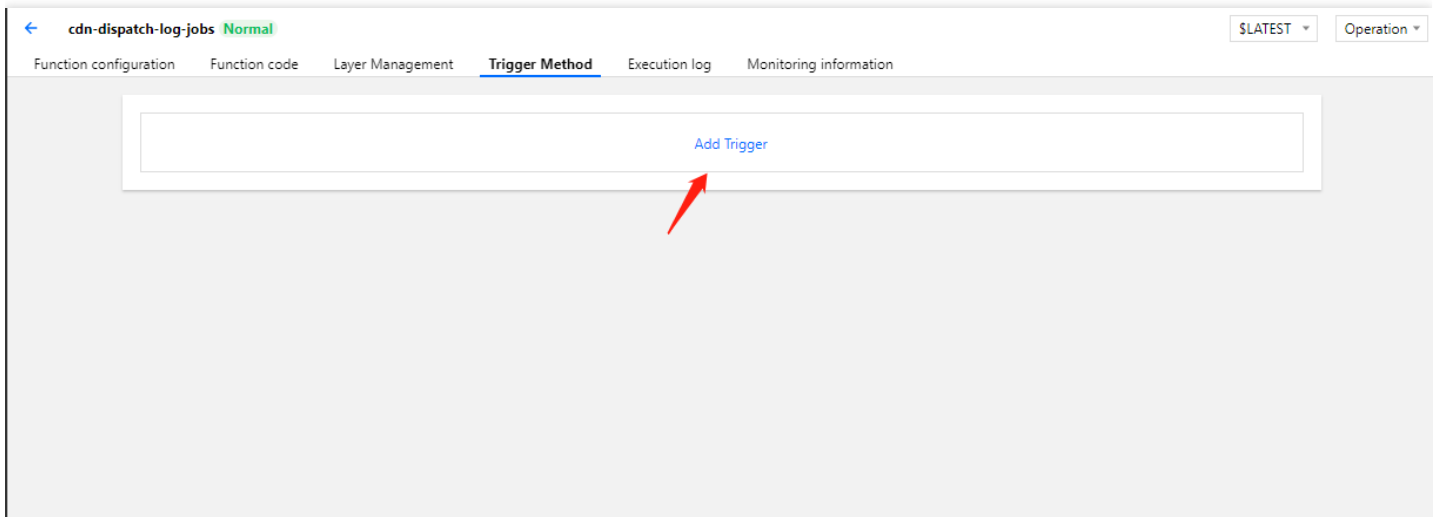
D. Configure the timer

After you create the two functions above, the list on the SCF Console will be as shown below:

1. Click **cdn-dispatch-log-jobs** to access its details.

Function Na...	Funcio...	M...	Runtime envir...	Description	Tag	Creation Time *	Last modified *	Operation
cdn-dispatch-log-...	Normal	Python2.7	get CDN logs by url and upload to COS. this is control function.		2020-05-11 16:19:43	2020-05-11 16:19:44	Delete Copy	
cdn-save-log-into-...	Normal	Python2.7	Get logs by url and upload to COS by streaming.		2020-05-11 16:01:25	2020-05-11 16:01:26	Delete Copy	

2. Click the **Trigger Management** tab and click **Create a Trigger**.



3. Select **Scheduled triggering** as the trigger method, enter a custom scheduled task name, select **Every 5 mins** as the trigger period, and click **Submit**.

The 'Add Trigger' dialog box contains the following fields and options:

- Trigger Method**: A dropdown menu with 'Scheduled triggering' selected.
- Scheduled task name**: A text input field containing 'timetest'.
- Trigger period**: A dropdown menu with 'Every 5 mins (Execute once at' selected.
- Remarks**: A dropdown menu with 'No' selected.
- Enable Now**: A checkbox that is checked.

Below the 'Enable Now' checkbox, there is a note: 'If it's checked, the scheduled trigger will be activated and executed at the start point of next period.'

At the bottom of the dialog, there are two buttons: 'Save' (in blue) and 'Cancel' (in white).

Once you complete all the steps above, CDN logs will be regularly stored into COS.