

Content Delivery Network Configuration Guide Product Documentation





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Configuration Guide Domain Management Domain Name Operations

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Scenarios

To manage domain names connected to Tencent Cloud CDN, go to the CDN console and select **Domain Management** from the left sidebar.

You can adjust the list column, batch enable/disable acceleration service for domain names, and batch change domain name projects, tags, and configurations.

Directions

Adjusting list volumes

φ

Click the icon on the right of the search bar to open the list field option list. You can choose to display or hide fields and adjust their display order:

| Add domain name | Batch Operation 🔻 | | | | | | | | | Separate keyw | | ¢≢¢φ |
|-----------------|-------------------|-------|----------------------------|----------------|---|-------------------------------|------------------|-------------------------------------|--------------------------------------|---------------|-----------|------|
| Domain name | Status T | CNAME | Service T region | Access mode | Ŧ | Acceleration T type | Project Y | HTTPS T Configurat ion | Origin- T pull Protocol | Origin Domain | Operation | |

Exporting the configuration list

ŧ

Click the icon on the right of the search bar to export an Excel file of the domain name list content. You can select up to 1000 domain names to export each time.

Changing the related project

You can change the projects of normally-running domain names.



• Single domain name: Click More -> Modify Project.

| Domain name | Status T | CNAME 🕄 | Service T region | Access T mode | Acceleration ▼ type | Project T | HTTPS Y Configurat ion | Origin- ▼ pull Protocol | Origin Domain | Operation |
|-------------|-----------------|---------|-----------------------------------|-----------------------------|--------------------------|------------------|-------------------------------------|-------------------------------|---------------|-----------------------|
| | ⊘ Enabled | | Outside the ninese mainland | Tencent Cloud COS Origin | Webpage file download | Default Project | Not configured | Follow Protocol | | Manage Disable More 🔻 |

 Batch change the project: Select target domain names and click More Actions -> Edit Project on the top. Up to 50 domain names can be selected at a time.

| Add domain name | Batch Operation 💌 |
|---------------------------------|----------------------------|
| | Enable domain |
| Domain name | Disable domain |
| | Delete Domain Name |
| _ | Edit tag |
| | Edit Project |
| | Batch Change Configuration |
| ~ 5 | ⊘ Enabled |
| ∠ 5… | |

Editing tags

- Single domain name: Click the target domain name to enter its configuration page, open the **Basic Configuration** tab, click the pencil icon on the right of **Tag** in the **Basic Information** section.
- Batch editing: Select domain names to modify, and click More Actions -> Edit Tag on the top. Up to 50 domain names are supported. Refresh the page to check the updated tags.

Disabling the acceleration service

When you disable the acceleration service for a domain name, it is deactivated on CDN cache nodes across the entire network. All access requests to the domain name get 404. Therefore, before disabling a domain name, make sure that its CNAME record is resolved to a non-CDN CNAME address.

Note:

Consumption will no longer be generated after the acceleration service is completely disabled.

- Single domain name: More -> Disable.
- Batch disable: Select domain names to disable, click **More Actions** -> **Disable Acceleration** on the top.

Enabling the acceleration service

When the acceleration service is enabled for a domain name, the domain name configuration is distributed to cache nodes across the entire network.

- Single domain: Click **More** -> **Enable**.
- Batch enable: Select domain names to enable, and click More Actions -> Enable Acceleration on the top.

Note:

If an enabled domain name has no operations or consumption for 3 months, it will be considered inactive and CDN will automatically disable its acceleration service.

Deleting domain names

To delete an accelerated domain name, you need to disable it first. After the deletion, all data of the domain names will be cleared and cannot be restored. You can no longer check their statistical data.

- Single domain name: Locate the domain name, click **More** -> **Delete**.
- Batch delete: Select domain names to delete, and click More Actions -> Delete on the top.

Batch changing configurations

The Batch Change Configuration feature allows you to change a configuration item of multiple domain names at the same time. For more information, please see Batch Changing Configuration.



| Add domain name | Batch Operation 💌 |
|-----------------|----------------------------|
| | Enable domain |
| Domain name | Disable domain IE 🛈 |
| | Delete Domain Name |
| | Edit tag |
| | Edit Project |
| | Batch Change Configuration |
| | 🕑 Enabled |
| | |
| | |
| | ⊘ Enabled |

Copying configurations

The Copy Configuration feature allows you to duplicate configurations of an existing acceleration domain name to one or multiple new acceleration domain names. For more information, please see Copying Configuration.

| Domain name | Status T | CNAME (j) | Service T region | Access T mode | Acceleration T type | Project T | HTTPS Y Configurat ion | Origin- 🔻 pull Protocol | Origin E | Purge all caches | • |
|-------------|-----------------|-----------|------------------------------------|-----------------------------|-------------------------------|------------------|-------------------------------------|-------------------------------|----------|---|--------|
| | 🕑 Enabled | | Outside the Chinese mainland | Tencent Cloud COS Origin | Webpage file download | Default Project | Not configured | Follow Protocol | tom-cdr | Recommended configuration Copy Configuration Modify Tag | More 🔻 |

Purging all caches

To purge all cached resources on the CDN nodes under the current domain name, click **More** on the right of the domain name, and click **Purge all caches** in the pop-up window.

| Add domain name | Batch Operation 🔻 | | | | | | | | | Separate keywords with | Q Ŧ | ¢ |
|-----------------|-------------------|-----------|------------------------------------|-----------------------------|-------------------------------|------------------|------------------------------|-------------------------------|----------|---|------|------------|
| Domain name | Status ▼ | CNAME (1) | Service T region | Access T mode | Acceleration T type | Project T | HTTPS T Configurat | Origin- ▼ pull Protocol | Origin I | Purge all caches | | |
| | ✓ Enabled | | Outside the Chinese mainland | Tencent Cloud COS Origin | Webpage file download | Default Project | Not configured | Follow Protocol | - | Recommended configuration Copy Configuration Modify Tag | More | e * |

Domain name search

Last updated : 2020-03-03 15:05:53

Operation Scenarios

You can use the domain name search feature to find a specific domain name. You can filter domain names by multiple criteria such as domain name, origin server, tag, and project as well as multiple keywords.

A tag is provided by Tencent Cloud to identify resources on the cloud. For more information on tags and how to manage it, please see Tag.

Directions

- 1. Log in to the CDN Console and click **Domain Management** on the left sidebar to enter the management page.
- 2. Click the domain name search box to activate the search feature, select one or more resource attributes such as domain name, origin server, tag, or project, and enter a value to filter domain names.

| | | 1 | Ŧ | ¢ | φ | |
|-----------------------|-------------------------|---------------|---|---|---|--|
| Service Type T | Filter by resource type | s Enter 🛿 🛈 🔍 | | | | |
| Static content | Origin | Manage | | | | |
| VOD Acceleration | Tags Project | Manage | | | | |

3. If you have questions about the input resource attribute or input format, click the i icon for help with search.

| | Theorem of the source of pe | ess Enter ⊗iQ | | | |
|------------------|-----------------------------------|-----------------------|--|--|--|
| Project T Host h | bost hi Domain dmair Origin | T Operation Manage | | | |
| bandte | Tags Project | Manage | | | |

- Only master origin servers can be searched for, not slave servers.
- Use semicolon (;) to separate origin server IP addresses when searching for multiple origin servers.
- Only single-keyword search is supported for domain names and origin servers.

Search Description

• Search by domain name: Enter a complete or partial domain name for search. Fuzzy search is supported.

| Create a Distribution | Activate CDN De | eploy to oversea CDN | More Actions 🔻 | | Domain:2 | Q ± ¢ ¢ |
|-----------------------|-----------------|----------------------|----------------|--|-------------|--------------------------------|
| Domain | Status T | CNAME | Origin type 🔻 | Service Type T Project T | Host header | HTTPS Confi Y Operation |
| 2 | Activated | | External | Static content | | Undeployed Manage |
| 2. | () Closed | | External | Static content | | Undeployed Manage |

- Search by origin server: Enter a complete or partial origin server for search. Fuzzy search is supported.
- Search by tag: Enter a complete tag, and a list of domain names that contain the entered tag will be returned. Fuzzy search is not supported.

• Search by project: You can select multiple projects as a filter.

| Create a Distribution | Activate CDN Deploy to ov | ersea CDN More Actions 🔻 | | | [| Project: nine nine2 | | ±¢¢ |
|-----------------------|-------------------------------|--------------------------|-----------------------|-------------------|-----|-----------------------|-----------------|-----|
| Domain | Status T CNA | ME③ Origin type ▼ | Service Type T | Project T | Hos | h All Projects | ess Enter 😢 🛈 Q | |
| | Activated | . External | Static content | 10.000 | | nine | Manag | e |
| | Activated | External | Static content | 10,00 | | open3 | Manag | e |
| | () Closed | External | Static content | Sec. | | open4 | Manag | e |
| | 也 Closed | COS Origin | Static content | 500 - 5 00 | | test | 👻 Manag | e |
| | ~ · · · · · · · · | | | | | Done C | ancel | |

- Filter by multiple criteria: You can select one or more criteria such as tag, domain name, origin server, and project for filtering. Use the enter key to separate multiple criteria.
- Filter by multiple keywords: You can enter multiple keywords for each filter criterion. Use vertical bar (|) to separate multiple keywords.

Help with search

| Туре | Input Format | Example | Search Box Example | Description |
|--|---|---|--------------------------|--|
| Single keyword | Keyword | www.test.com | www.test.com | Filters domain names containing www.test.com |
| Single domain name attribute | Attribute:keyword | Origin server:1.1.1.1 | Origin:1.1.1.1 | Filters domain names where the origin server contains 1.1.1.1 |
| Multiple domain name attributes | Attribute:keyword carriage return Attribute:keyword | Domain name:test Origin server:1.1.1.1 | Domentert Organ1111 | Filters domain names where the domain name contains "test" and origin server contains "1.1.1.1" |

| Туре | Input Format | Example | Search Box Example | Description |
|---|---------------------------|---------------------|--------------------------|---|
| Single domain name attribute with multiple keywords | Attribute:keyword keyword | Project:test1 test2 | Projectitest1 test2 | Filters domain names where the domain name contains "test1" or "test2" from the selected project. The domain name and origin server attributes currently do not support multi-keyword search |
| Copied character | (Pasted character) | test abc | Domaintest abc | Filters domain names containing "test" or "abc" |

CDN cannot make global searches if no attribute is entered. Therefore, the **domain name** attribute is added for search by default. In other words, when you enter a single keyword, the content in the search box will be domain name:www.test.com ; when you copy characters, the content in the search box will be domain name:test]abc .

Copying Configuration

Last updated : 2020-12-28 11:32:31

Configuration Overview

With the Duplicate Configuration feature, you can duplicate configurations of an existing forwarding domain name to one or multiple new forwarding domain names.

A Note:

- This feature is not available for domain names that are disabled or blocked, having expired ICP filing (only for Chinese domain names), using external certificates, or with unsupported configurations varying across regions.
- Backend configurations (i.e. configurations that not set up in the console) cannot be duplicated.

Configuration Guide

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Duplicate Configuration** on the right of a domain name to enter its configuration page.

| CDN | Domain Manageme | ent | | | | | | | |
|----------------------|-----------------|--------------------------------------|--------------------|-----------|---------|-----------------------|----------------------|--------------------------------|----|
| E Overview | | Create a Distribution More Actions 🔻 | | | | | Se | parate keywords with 🔍 🛓 : | ¢φ |
| Domain Management | | Domain | Service R T | Status T | CNAME (| Service Type T | HTTPS Confi T | Operation | |
| Certificate | | | Chinese | 🕑 Enabled | | Static acceleration | Not Configured | Manage Copy Configuration More | * |
| 🕑 Statistics 🗸 👻 | | | Mainland | <u> </u> | | | - | | |

Add a new forwarding domain name and submit it. The configurations of the current domain name will be duplicated to

the new one.

| ÷ | Copy Configura | ation | | | | | |
|---|----------------|--|--|--|--|--|--|
| | | Copy the configuration of com to the new domain name below: | | | | | |
| | | Note The configurations of an existing acceleration domain name can be copied to one or multiple new acceleration domain names. Learn More I2 If the original domain name has special configurations on the backend (instead of the console), the special configurations cannot be copied. | | | | | |
| | | Acceleration Domain Name | | | | | |
| | | Add | | | | | |
| | | Сору | | | | | |

i Note:

- The submitting process cannot be interrupted. You can manage the configuration after the new domain name is successfully added.
- The configurations of a new domain name will be deployed to CDN nodes across the entire network, without affecting your running businesses. If you want to enable the acceleration service, you need to configure the CNAME. For configuration directions, please see CNAME Configuration.

Batch Changing Configuration

Last updated : 2021-03-31 16:07:10

Feature Overview

The Batch Change Configuration feature allows you change a configuration item of multiple domain names at the same time.

i Note:

Some of the configuration items are not yet available for batch changing.

Directions

Log in to the CDN console and select **Domain Management** on the left sidebar. Tick two or more enabled domain names, and then click **More Actions** -> **Batch Change Configuration** on the top of the domain name list to enter the configuration page.

| Create a Distribution More Actions 💌 | | | | | Separate keywords with | φ±¢φ |
|--------------------------------------|-------------------------|-----------------|----------|-----------------------|---------------------------|--------|
| Domain | Service Region T | Status T | CNAME () | Service Type T | Operation | |
| | Overseas | ⊘ Enabled | | Static Acceleration | Manage Copy Configuration | More 🔻 |
| | Overseas | C Enabled | | Static Acceleration | Manage Copy Configuration | More 🔻 |

A Note:

- Configurations of disabled, blocked, and locked domain names cannot be changed in batches.
- For domain name configurations that are not completed on the console, configuration changes do not apply.

Notes

- Configuration changes take effect immediately and cannot be reversed.
- · Choose domain names with the same configurations on acceleration region, service type, or HTTPS certificate
- To batch change the HTTPS certificate configurations, please go to the certificate management page.



• Up to 20 domain names can be changed at a time. It's not suggested to choose too many domain names as it may take quite a long time for the change to take effect.

Configuration Manual Shared CNAME

Last updated : 2023-06-29 17:45:01

Shared CNAME

You can bind multiple domain names to the same custom CNAME for easy management.

Note:

- This feature is now only available to beta users.
- You need to modify the CNAME resolution of your domain after the operation.

Configuration directions

Checking shared CNAMEs

Log in to the CDN console, click **Domain Name Management** from the left sidebar. In the page that appears, click **Shared CNAME**.

| Add domain name Batch O | peration 🔻 Shared CNAME | | Separ | ate keywords with 🔍 🛓 🗘 |
|-------------------------|-------------------------------|------------------|-----------------|--|
| Domain name | Acceleration T type | Status T CNAME (| | Service T region Operation |
| | Webpage file download | | Customer Origin | Outside the Chinese Manage Disable More mainland |
| | Webpage file download | () Disabled | | Chinese Manage Enable More mainland |
| | Webpage file download | ✓ Enabled | Customer Origin | Outside the Chinese Manage Disable More mainland |

Adding a configuration

Click Add configuration and complete the configuration.

| Shared CNAME | | | | |
|-------------------|--------------|---------------------|---------------------------|----------------------|
| New Configuration | | | Enter a CNAME/description | keyword Q |
| CNAME | Bound domain | Update time | Description | Operation |
| | 100 | 2023-04-21 16:57:01 | - / | Add Unbind Delete |
| Total items: 1 | | | 10 💌 / pa | ge H ≤ 1 /1 page ► H |

See below for details:

1. Select domain name: Select the target domain name.

Note :

- It's recommended to add domain names with the same acceleration region and service type to the same CNAME.
- If you have enabled both CDN and ECDN services, you cannot select domain names that use different services.
- The domain name to add cannot be closed, blocked, locked or bound with another CNAME.
- 2. The backend automatically groups the selected domain names by their platforms, and assigns a custom CNAME record to each group. This way, domain names in the same group are bound to the same CNAME record.

Note :

A string in the format of XXX-APPID.shared.cdn.dnsv1.com is appended to a custom CNAME record.

3. Check the assigned CNAME records. The initial CNAME record of a selected domain name will be overwritten by the corresponding shared CNAME record. Therefore, you must manually check the configuration. Then, click **Confirm** to return to the **Shared CNAME** page and view the configuration.

Editing the configuration

After you configure a shared CNAME record, you can bind more domain names to the record, unbind domain names from the record, and delete the record.

Shared CNAME

| New Configuration | | | Enter a CNAME/description keyw | ord Q |
|-------------------|--------------|---------------------|--------------------------------|-------------------|
| CNAME | Bound domain | Update time | Description | Operation |
| | | 2023-04-21 16:57:01 | - | Add Unbind Delete |
| Total items: 1 | | | 10 🔻 / page | I < 1 /1 page → → |

Binding domain names

You can bind more domain names to a shared CNAME record.

Note:

A shared CNAME record is strongly related to the platform of a domain name. You can select only domain names whose platform matches the current shared CNAME record. Unmatched domain names are grayed out and cannot be selected.

Unbinding a domain name

You can unbind a domain name from a shared CNAME record.

Note :

- The CNAME configuration of the unbound domain name will be restored to its initial CNAME record. We recommend that you check the CNAME configuration of the domain name after the operation.
- A shared CNAME record must be bound to at least one domain name. If all previously bound domain names are unbound from a shared CNAME record, the shared CNAME record is deleted.

You can also go to the **Domain Management** page, find the target domain name, and choose **More** > **Cancel shared CNAME** in the **Operation** column to unbind the domain name from its shared CNAME record.

| Add domain name | Batch Operation 🔻 | Shared CNAME | | | | Sep | arate keywords with 🛛 Q 🕹 🌣 |
|------------------------|-------------------|--------------|-------------------------------|---------------------------|---------|-------------------------|--|
| Domain name | | | Acceleration T type | Status T | CNAME (| Access T mode | Purge all caches |
| | | | Webpage file download | 🕑 Enabled | | Customer Origin | Copy Configuration Modify Tag |
| | | | Webpage file download | (¹) Disabled | | Customer Origin | Cancel shared CNAME |
| | | | Webpage file download | ⊘ Enabled | | Customer Origin | Outside the Chinese Manage Disable More ▼ mainland |
| 0 selected; 3 in total | | | | | | 20 💌 / pag | e H ◀ 1 /1page ▶ H |

Deleting a shared CNAME record

After you delete a shared CNAME record, all domain names previously bound to it are unbound, and the CNAME configurations of the domain names are restored to the respective initial CNAME records. We recommend that you check the CNAME configurations of the domain names after the operation.

Domain Name Configurations Configuration Overview

Last updated : 2021-04-13 18:20:40

Configuration Overview

CDN supports various custom configurations and you can adjust them based on your business needs.

Basic configurations

Basic configurations are the contents required for CDN acceleration, including origin server configurations and the basic acceleration service information such as acceleration region and service type, etc.

| Configuration | Description |
|--------------------------------|---|
| Basic Information | Modifies basic information such as the project, acceleration region, and service type, etc. |
| Origin Server Configuration | Configures multi-IP round-robin origin-pull, domain name-based origin-pull, weighted round-robin origin-pull, origin domains, and origin-pull protocols. Supports configuring hot backup origin servers. For global acceleration domain names, the acceleration in and outside the Chinese mainland can be configured separately. |

Access control

You can configure various rules based on user requests to allow or block access requests.

| Configuration | Description |
|------------------------|---|
| Hotlink Protection | Supports setting referer allowlists and blocklists to determine whether to allow or deny HTTP access requests based on the request referer headers. For global acceleration domain names, the acceleration in and outside the Chinese mainland can be configured separately. |
| IP Blocklist/Allowlist | Supports setting IP allowlists and blocklists to determine whether to allow or deny HTTP access requests based on the request client IPs. For global acceleration domain names, the acceleration in and outside the Chinese mainland can be configured separately. |
| IP Access Limit | Limits the frequency that an IP can access a single node to deny the access requests from client IPs exceeding the limit. |



| Authentication | Supports various timestamp signature algorithms and rules for anti-hotlinking configuration. For global acceleration domain names, the acceleration in and outside the Chinese mainland can be configured separately. | | | |
|------------------------|--|--|--|--|
| Video Dragging | It is designed for streaming VOD acceleration. With the video dragging feature enabled, you can specify the start point of a video through the parameter start. | | | |
| UA Blocklist/Allowlist | Determines whether to deny or allow requests according to HTTP request header User-Agent . | | | |
| Downstream Speed Limit | Controls the CDN access bandwidth by setting the downstream speed limit on a URL. | | | |

Cache configuration

Cache configuration controls cache on CDN nodes.

| Configuration | Description |
|--------------------------|--|
| Ignore Query String | For resource cache, it supports configuring whether to ignore parameters after "?" in an access URL. We recommend disabling this feature if the parameters after "?" indicate differen contents of your business. |
| Node Cache Validity | Supports configuring the cache validity of files on nodes based on file path and type. |
| Status Code Cache | Supports configuring status code cache validity for CDN nodes to respond to 2XX status codes directly, thus reducing pressure on the origin server. |
| HTTP Header Cache | It can be disabled as needed. CDN nodes cache all origin server response headers by default. |
| Cache Ignore URL Case | CDN node cache does not ignore letter case by default. Letter case can be ignored as needed. |
| Access URL Rewrite | Supports customizing URL rewrite configuration to redirect requests from URLs with 302 status code to target URLs. |

Origin-pull configuration

Origin-pull configuration controls the process of forwarding requests from CDN nodes to origin servers.

| Configuration | Description |
|---------------|-------------|
| | |

| Range GETs | Range GETs is used for origin-pull by default. If it is not supported by your origin server, you can disable it. |
|---------------------|--|
| Request Header | Adds specified headers during origin-pull such as the real client IP. |
| Follow 301/302 | It can be enabled for origin-pull as needed. |
| Origin-pull Timeout | Configures the TCP connection timeout period (which defaults to 5 seconds) and loading period (which defaults to 10 seconds) of origin-pull. |

HTTPS acceleration configuration

HTTPS acceleration supports various HTTPS-related configurations.

| Configuration | Description |
|-------------------------------------|---|
| HTTPS Configuration | Supports uploading a self-owned certificate or a hosted certificate to enable HTTPS acceleration. |
| HTTP2.0 Configuration | With it is enabled, CDN edge servers can support HTTP2.0. Please first configure a certificate to enable HTTP2.0. |
| Forced Redirection Configuration | Forced redirection from HTTPS to HTTP access can be achieved with or without a certificate. Forced redirection from HTTP to HTTPS access requires a certificate. |
| OCSP Stapling | With it is enabled, OCSP stapling is support. Please first configure a certificate to enable OCSP stapling. |
| HSTS Configuration | If it is enabled, the header strict-transport-security will be added. Please first configure a certificate to enable HSTS configuration. |

Advanced configuration

| Configuration | Description |
|--------------------------------|---|
| Bandwidth Cap Configuration | Supports configuring bandwidth cap for the acceleration in and outside the Chinese mainland. Acceleration service can be stopped as needed if the cap is exceeded. For global acceleration domain names, the acceleration in and outside the Chinese mainland can be configured separately. |
| SEO Configuration | Supports automatically recognizing that whether an access IP belongs to a search engine. If yes, requests from the IP will be forwarded to the origin server to guarantee the stability of the search engine's weight. |
| Response Header | Sets HTTP response headers as needed and adds them to the response requests |



| Configuration | to clients. |
|------------------------------------|--|
| Smart Compression Configuration | Performs Gzip or Brotli compression on specified files based on the file type and range. |

Basic Configurations Basic Information

Last updated : 2021-04-08 14:38:02

Configuration Overview

For businesses that have been connected to Tencent Cloud CDN, you can view information such as domain name creation time, corresponding CNAME domain name, acceleration region, project, service type, and supported protocols on the basic information module of the domain name. You can also modify information such as acceleration region, service type, and project as needed.

Configuration Guide

Viewing basic information

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page. The domain name basic information is in the **Basic Configuration** tab.

| Basic Information | | | | |
|--|--|--|--|--|
| You can modify the domain name basic configuration as needed.Description 🗹 | | | | |
| Region | Global Modify | | | |
| Acceleration Domain Name | | | | |
| CNAME | | | | |
| Time Created | 2021-03-19 18:13:48 | | | |
| Project 🚯 | Modify | | | |
| Service Type | Static Acceleration (i) | | | |
| IPv6 Access 🚯 | Enable it to allow access through IPv6 | | | |

Modifying domain name acceleration region

Click **Modify** on the right of the acceleration region to change it.

- If a domain name is configured for global acceleration, requests will be scheduled to the nearest global CDN cache node. In general, nodes in and outside the Chinese mainland serve users in and outside the Chinese mainland respectively.
- If a domain name is configured for acceleration in the Chinese mainland, access requests from global users will be served by cache nodes in the Chinese mainland.
- If a domain name is configured for acceleration outside the Chinese mainland, access requests from global users will be served by cache nodes outside the Chinese mainland.

A Note:

Acceleration services in and outside the Chinese mainland are billed separately at different prices. For more information, please click here.

Modifying project

Click Modify on the right of the domain name project to change it.

A Note:

- Please note that project modification will change the project-based statistics and sub-user permissions. Please modify with caution.
- To create a project or manage existing projects, go to the Project Management page.

Modifying service type

Tencent Cloud CDN optimizes acceleration performance based on the service type. For the best acceleration result, we recommend selecting the service type similar to that of your actual businesses. If you want to adjust it, click **Modify** on the right:

A Note :

- Modifying service type will change the underlying CDN acceleration platform, which may cause a small number of failed requests and increase origin-pull bandwidth. We recommend modifying service type during off-peak hours.
- If you cannot find the **Modify** button next to your domain name, please contact us for assistance.

Modifying IPv6 access

Toggle the IPv6 access switch to enable or disable it. CDN nodes can be accessed over IPv6 protocol after IPv6 access is enabled.

▲ Note:

- Some platforms are being upgraded, IPv6 access is currently not supported. Please stay tuned for the official launch.
- IPv6 access is only available in the Chinese mainland. For global acceleration domain names, if IPv6 access is enabled, it will take effect only in the Chinese mainland. For domain names with acceleration outside the Chinese mainland, it cannot be enabled.
- For global acceleration domain names with IPv6 access enabled, if the acceleration region is switched to the regions outside the Chinese mainland, IPv6 access will be disabled automatically and cannot be enabled.

Origin Server Configuration

Last updated : 2023-09-28 10:50:52

Overview

You can modify the domain name's origin server basic information, origin-pull protocol, origin domain, and other information in the origin server configuration module.

Note

We recommend that you configure your origin server in the same region as the acceleration region. For example, if the acceleration region resides in the Chinese mainland, configure your origin server in the Chinese mainland. If you configure the origin server in Hong Kong (China) or outside the Chinese mainland, cross-board access is required during origin-pull. In this case, the origin-pull effect may not be ensured.

If your acceleration domain name is configured for global acceleration, you can configure independent origin servers respectively for different regions in the origin server configuration module of the domain name. This way, origin-pull requests that are initiated in and outside the Chinese mainland are sent to different origin servers. This ensures the origin-pull effect.

Directions

Primary origin server configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Basic Configuration** tab to see the **Origin Server Information** section.



Origin server

You can modify the existing origin server configuration or add hot backup origin servers (only customer origins are supported). If an origin-pull request fails, the hot backup (If access to the origin server is restricted, you can go to "Verify Origin-pull Node" to query the allowed origin-pull node IPs by domain name.

| Primary origin | | | | |
|----------------------|-------------------------------|-----------------|------|--|
| Origin type | Customer origin | | | |
| Origin-pull Protocol | НТТР | | | |
| Origin address | Origin-pull Rule Origi | in-pull address | Port | |
| | All Files | | - | |
| | Advanced origin-pull configur | ation 🕨 | | |
| Origin Domain | | | | |
| | | | | |
| + Add hot backup | origin | | | |

Origin server type

| Customer origin | You can use a stable business server that is running as the origin server. Enter the corresponding IP list or a domain name as the origin server address. |
|--|--|
| Tencent Cloud COS Origin | You can select a COS bucket as the origin server. Private bucket access can be enabled. |
| Third- Party Object Storage Origin | You can use a bucket of a third-party object storage service other than Tencent Cloud COS as the origin server. Currently, the supported third-party object storage services include Amazon S3, Alibaba Cloud OSS, Huawei Cloud OBS, and Qiniu Cloud KODO.Note: Currently, ECDN does not support origin servers that are based on third-party object storage services. |

Origin-pull protocol

The protocol used when a CDN cache node forwards requests to the origin server for origin-pull. You can select HTTP or HTTPS.

| HTTP Origin- pull | CDN pulls HTTP or HTTPS content from the origin server over HTTPS. | |
|-------------------------|--|--|
| | | |

| HTTPS Origin- pull | CDN pulls HTTP or HTTPS content from the origin server over HTTPS to prevent theft and tampering of origin-pull data with low CPU usage. Make sure that the origin server is accessible over HTTPS. |
|--------------------------|--|
| Follow Protocol | HTTP is used for an origin-pull of HTTP content. HTTPS is used for an origin-pull of HTTPS content. HTTPS is also used when you transfer key sensitive content. We recommend that you select this option. Make sure that the origin server is accessible over HTTPS. |

Note

If you select HTTPS origin-pull, make sure that the origin server is accessible over HTTPS. Otherwise, origin-pull may fail.

Origin server address

| External origin | You can enter multiple origin IPs or origin domain names with one entry per line. Origin-pull from multiple origin IPs in round robin mode: You can enter multiple origin IPs with one entry per line to pull content from these IPs in round robin mode. CDN checks the availability of each origin IP by default. If content fails to be pulled from an IP or if more than five origin-pull requests that are sent to the origin IP time out within one minute, no more origin-pull requests are sent to the origin IP. The origin IP is blocked for 600 seconds and automatically resumed later.Origin-pull from a domain name: You can configure a domain name as the origin server address. The domain name must be different from the acceleration domain name. You cannot use IPv6 domain names.Note: You cannot enter a domain name that is connected to CDN and points to the acceleration domain name. Otherwise, resolution loop occurs, which leads to origin-pull failures. When you enter an origin IP or domain name, you can add a port that ranges from 0 to 65535 and a weight that ranges from 1 to 100 in the format of Origin server address:Port:Weight or Origin server address::Weight. By default, the port is omitted.Note: The weights are sorted based on the size of the number. The larger the number, the higher the weight, and the higher the priority of the origin IP or domain name. |
|--|--|
| Tencent Cloud COS Origin | Select a COS bucket as the origin server. Select the default domain name, static website domain name, or global acceleration domain name as the bucket address based on the bucket configuration and your actual business needs. For example, if the static website configuration is enabled for the selected bucket, select the static website domain name. If the access permission of the bucket is set to private read, authorize CDN to access the bucket, and enable origin-pull authentication to allow private bucket access. |
| Third- Party Object Storage Origin | If your resources are stored in a bucket of a third-party object storage service, enter a valid bucket address as the origin server address. Currently, the supported third-party object storage services include Amazon S3, Alibaba Cloud OSS, Huawei Cloud OBS, and Qiniu Cloud KODO.Example: mybucket.s3.ap-east-1.amazonaws.com or mybucket.oss-cn-beijing.aliyuncs.com. The bucket address cannot contain the http:// or http:// protocol header. |

If you use a private bucket of a third-party object storage service as the origin server, enter a valid key and enable origin-pull authentication to allow private bucket access.

Origin domain

It refers to the domain name that is accessed on the origin server by a CDN node during origin-pull. For more information about how to configure an origin domain, see Origin domain configuration.

Note

The differences between an origin server address and an origin domain are as follows:

Origin server address specifies the IP address to which an origin-pull request is sent.

Origin domain specifies the website corresponding to the IP address to which an origin-pull request is sent.

| External origin | The acceleration domain name is used as the origin domain by default. If a wildcard domain name is connected, the origin domain is the actual access domain name by default and can be customized. |
|--|--|
| Tencent Cloud COS Origin | The bucket access address is used as the origin domain by default, which is the same as the origin server address and cannot be modified. |
| Third-Party Object Storage Origin | The bucket access address is used as the origin domain by default, which is the same as the origin server address and cannot be modified. |

Hot backup origin server configuration

You can add a hot backup origin server for your primary origin server. All origin-pull requests will be forwarded to the primary origin server first. If a 4XX or 5XX error code is returned or an exception such as connection timeout or protocol incompatibility occurs, requests will be forwarded to the hot backup origin server to pull resources, ensuring the high availability of origin-pull.

The hot backup origin server can be configured with its own origin server address and origin domain.



| Origin server | | | | | | | | |
|---|-------------------------|---------------------|--|------|--|--|--|--|
| You can modify the existing origin server configuration or add hot backup origin servers (only customer origins are supported). If an origin-pull request fails, the hot backup lf access to the origin server is restricted, you can go to "Verify Origin-pull Node" to query the allowed origin-pull node IPs by domain name. | | | | | | | | |
| Primary origin | Primary origin | | | | | | | |
| Origin type | Customer origin | | | | | | | |
| Origin-pull Protocol | НТТР | | | | | | | |
| Origin address | Origin-pull Rule | Origin-pull address | | Port | | | | |
| | All Files | | | - | | | | |
| | Advanced origin-pull | configuration 🕨 | | | | | | |
| Origin Domain | | | | | | | | |
| | | | | | | | | |
| + Add hot backup | + Add hot backup origin | | | | | | | |
| | | | | | | | | |

Note

Primary origin and hot backup origin only allow the same origin-pull protocol. If you need to modify the origin-pull protocol, please do it at the primary origin protocol location. After the modification is successful, the origin-pull protocol of the hot standby origin will be synced and updated.

The origin type of the hot backup origin does not support COS origin and third-party Object storage. If you need a COS origin or third-party Object storage as a hot standby origin, you can fill in the public network access address in the owned origin.

If the primary origin has enabled IPv6, adding a hot standby origin is not supported.

Region-specific configuration

If your acceleration domain name is configured for global acceleration and you want to avoid cross-border traffic, click

+ **Region-specific configuration** to configure different origin servers for different service regions of the acceleration domain name.



| Yo | | | ation or add hot backup origin servers (only customer origi go to " Verify Origin-pull Node " to query the allowed origi | gins are supported). If an origin-pull request fails, the hot backup o n-pull node IPs by domain name. |
|----|----------------------|----------------------|--|---|
| | Primary origin | | | |
| | Origin type | Customer origin | | |
| | Origin-pull Protocol | нттр | | |
| | Origin address | Origin-pull Rule | Origin-pull address | Port |
| | | All Files | the second second second | 80 |
| | | Advanced origin-pull | configuration 🕨 | |
| | Origin Domain | | | |
| | + Add hot backup | o origin | | |
| + | Region-specific co | nfiguration Set up | configurations for a specific region | |

Select regions that need different origin-pull policies and enter the corresponding origin server information. For more information, see Region-specific configuration.

Note

You cannot add a region-specific configuration if you use a bucket of a third-party object storage service as the origin server.

Configuration Samples

Origin domain configuration

If the CDN origin server and the acceleration domain name www.test.com are configured as follows:

| n server info | | | |
|---------------------------|---|--|--|
| n edit existing origin se | rver or add hot backup origins (only external o | rigin supported). When the back-to-origin reques | t failed, the hot backup origin server will be rec |
| fault Configuration | n | | |
| | | | |
| Primary origin co | nfiguration | Edit | Hot backup origin configuration |
| Origin Type | Existing Origin | | |
| Origin address | www.abc.com | | If a request fails during origin-p |
| Origin-pull Protocol | нттр | | |
| Host header | www.def.com | | |
| | | | |

The access route for the user will be:

When a user accesses the resource http://www.test.com/test.txt that has not been cached on the CDN
node, the node will resolve the domain name www.abc.com to get the origin server address 1.1.1.1. Then,
the CDN node will access the server 1.1.1.1, find the test.txt file in the website path www.def.com,
and return the file to the user.

Region-specific configuration

If the CDN origin server and the acceleration domain name www.test.com are configured as follows:

Origin server info

| Primary origin co | nfiguration | Edit Switch Master/Slave Origin Server | Hot backup origin | n config |
|----------------------------------|---|--|----------------------------------|---------------------------------|
| Origin Type | Existing Origin | | Origin Type | Existing |
| Origin address | 1.1.1.1 | | Origin address | 2.2.2.2 |
| Origin-pull Protocol | НТТР | | Origin-pull Protocol | нттр |
| Host header | 1.test.com | | | |
| erseas Region Cor | | | Host header | 1.test.co |
| erseas Region Cor | ofiguration | | | 1.test.co |
| Primary origin co | nfiguration nfiguration | Edit Switch Master/Slave Origin Server | Hot backup origin | n config |
| - | ofiguration | Edit Switch Master/Slave Origin Server | | |
| Primary origin co | nfiguration nfiguration | Edit Switch Master/Slave Origin Server | Hot backup origin | n config |
| Primary origin co Origin Type | nfiguration Infiguration Existing Origin 3.3.3.3 | Edit Switch Master/Slave Origin Server | Hot backup origin Origin Type | n config Existing 4.4.4.4 |

The actual origin-pull will then be:

1. When a user in the Chinese mainland accesses the file http://www.test.com/test.txt and the node in the Chinese mainland has not cached this resource, it will forward the request to the server 1.1.1.1 and try to find the test.txt file in the website path 1.test.com. If the resource exists, the node will directly return the file to the user. If not, it will go to step 2.

2. As the CDN node in Mainland China fails to forward the request to the primary origin server and cannot find the resource, it will forward the request to the server 2.2.2.2, find the test.txt file in the website path

2.test.com , cache and return it to the user.

3. At this time, a user outside the Chinese mainland accesses the file http://www.test.com/test.txt . As the node outside the Chinese mainland has not cached this resource, it will forward the request to the server

3.3.3.3 and try to find the test.txt file in the website path 3.test.com. If the resource exists, the node will directly return the file to the user. If not, it will go to step 4.

4. As the CDN node outside the Chinese mainland fails to forward the request to the primary origin server outside the Chinese mainland and cannot find the resource, it will forward the request to the server 4.4.4.4, find the

test.txt file in the website path 4.test.com, and then cache and return it to the user outside the Chinese mainland.

Advanced Origin-pull Configuration

Last updated : 2023-06-29 17:45:02

Advanced origin-Pull configurations

Tencent Cloud CDN allows you to configure fine-grained origin-pull based on origin-pull rules, such as path-based rules (i.e., specifying a file type, folder, full file path, or homepage for origin-pull) and client IP region-based rules.

Restrictions

By default, the origin-pull protocol and origin domain of the primary origin server are adopted for the advanced originpull configuration and cannot be modified.

Configuration Guide

Configuration in domain management

- 1. Log in to the CDN console.
- 2. Click **Domain Management** on the left sidebar to enter the domain name management list.
- 3. Select the target domain name and click **Manage** to enter the domain name configuration page.
- 4. On the **Baisc information** tab, find the **Origin server** section and click **Edit** in the top-right corner of the **Primary origin** section.

| Origin server | | | | | |
|----------------------|-----------------------------|---------------------|--|---|--------------------|
| | | | (only customer origins are supported). If an origin-pull re ry the allowed origin-pull node IPs by domain name. | equest fails, the hot backup origin server will be requested for resources.How to set | t origin servers 🗹 |
| | | | | | _ |
| Primary origin | Primary origin Edit | | | | Edit |
| Origin type | Origin type Customer origin | | | | |
| Origin-pull Protocol | HTTPS | | | | |
| Origin address | Origin-pull Rule | Origin-pull address | Port | Weight | |
| | All Files | | | | |
| | Advanced origin-pull | configuration 🕨 | | | |
| Origin Domain | | | | | |
| | | | | | |
| + Add hot backu | p origin | | | | |
| | | | | | |

5. Click Advanced origin-pull configuration.

| <pre>Selption environments of the standard provider for the standard provider provider and the standard provider p</pre> | | | | | | |
|--|----------------|--|---|--------|--|--|
| <pre>tetes tetes retrested you can ge to Verkif Vigher-publicked's grapher publicked to program publicked to progr</pre> | Origin server | Origin server | | | | |
| ingent term | | | | | | |
| Origin colling | Primary origin | 1 | | | | |
| od Four origins meet supports HTTRS, you can use the protocol to prevent origin-pull data the meet sum. Crigin address Image: Image | Origin type | O Customer Origin ── Tencent Cloud COS Origin ── Third-Party Object Storage Origin ③ | | | | |
| <pre>injoin derive subports in this you can use the product to prevent origin-put wata their and tampends.</pre> | | HTTP HTTPS Follow Protocol | | | | |
| Origin-pull Origin-pull Address (Origin/Port:Weight) Oper I Files 1 - 65535 1 - 1-00 Add origin Address Conjoin-pull Configuration * Conjoin-pull Configuration * Conjoin-pull Rule Origin-pull Address (Origin/Port) Oper File extension * pippingccs Pease enter the origin server (IP/domain name) address 1 - 65535 2 - 65535 0 - 06466 Corigin Domain Add origin Corigin Domain Corigin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the vebsite domain name accessed at the origin server by a CDN node during origin-pull Matres the origin domain feets to the server board origin domain and be accessed. Otherwise, origin-pull matres. Kei dowain the address of the Tencent Cloud CCS origin or third-party object storage origin for origin domain needs to be the same as the origin address. | ocol | If your origin server supports HTTPS, you can use the protocol to prevent origin-pull data theft and tamperin | g. | | | |
| Add origin Add origin Add notigin-pull configuration * Deprote mere fined origin-pull settings. What's advanced origin-pull configuration field Origin-pull Address (Origin-Port) Please enter the origin server (IP/domain name) address 1 1 Origin Domain Add origin Please enter the origin server (IP/domain name) address 1 1 Origin Domain And proton refers to the website domain name accessed at the origin server by a CDN node during origin-pull What's the origin domain and exa to explain the server set origin domain and exa to explain the server by a CDN node during origin-pull What's the origin domain and exa to explain the server set origin domain and exa to explain the server by a CDN node during origin-pull What's the origin domain and exa to explain the server set origin domain and exa to explain the server by a CDN node during origin-pull What's the origin domain field to explain the server set origin domain and exa to explain the server by a CDN node during origin-pull What's the origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain contexplain the server set origin or third-party origin for origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the server set origin domain and exa to explain the origin domain and exact origin or third-party origin to origin address, the origin domain and exact set or the indexplain the server set origin domain and exact set origin domain and exact set origin domain and exact set origi | Origin address | Origin-pull Origin-pull Address (Origin:Port:Weight) | | Oper | | |
| Advanced origin-pull configuration Advanced origin-pull settings. What's advanced origin-pull configuration 12 Origin-pull Rule Origin-pull Address (Origin-Port) Oper I lees enter the origin server (IP/domain name) address Torigin Domain Origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain 12 An origin domain cafers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain 12 Rese ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address. | | All Files | : 1-65535 : 1-100 | | | |
| It supports more refined origin-pull settings. What's advanced origin-pull configuration [2] Origin-pull Rule Origin-pull Rule If ile extensio ijpg:png:css Origin Domain Origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain [2] Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Not: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin domain needs to be the same as the origin address. | Add origin | | | | | |
| It supports more refined origin-pull settings. What's advanced origin-pull configuration [2] Origin-pull Rule Origin-pull Rule If ile extensio ijpg:png:css Origin Domain Origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain [2] Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Not: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin domain needs to be the same as the origin address. | | Advanced grining will configuration A | | | | |
| File extensio ipg:png:css Please enter the origin server (IP/domain name) address i 1-65335 Delete Add origin Origin Domain An origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain [2] Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address. | | | | | | |
| Add origin Origin Domain An origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain C Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address | | Origin-pull Rule | Origin-pull Address (Origin:Port) | Oper | | |
| Origin Domain An origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull.What's the origin domain C Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address | | File extensio | Please enter the origin server (IP/domain name) address 1-65535 | Delete | | |
| An origin domain refers to the website domain name accessed at the origin server by a CDN node during origin-pull. What's the origin domain Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address | | Add origin | | | | |
| Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your business. Note: if you enter the address of the Tencent Cloud COS origin or third-party object storage origin for origin address, the origin domain needs to be the same as the origin address | Origin Domain | | | | | |
| | | Please ensure your origin domain can be accessed. Otherwise, origin-pull may fail, which will affect your busi | ness. | | | |
| Save | | | | | | |
| | Save | Cancel | | | | |

6. Set the configuration items in the Advanced origin-pull configuration section as described in the following table.

| Item | Description |
|------------------|--|
| Origin-pull Rule | Client requests can be forwarded by the following rules: Client IP: This rule directs origin-pull requests of clients inside or outside the specified region to the specified origin address. File extension: This rule directs origin-pull requests for the specified file extensions to the specified origin address. If you specify multiple file extensions, separate them with semicolons (;). File directory: This rule directs origin-pull requests for files in the specified directory to the specified origin address. If you specify multiple directories, separate them with semicolons (;). File directory: This rule directs origin-pull requests for a specific file with its full path, such as /a/1.jpg , to the specified origin address. If you specify multiple files on the homepage to the specified origin address. |



| Item | Description |
|------------------------|---|
| Origin-pull Address | You can specify domain names or IP addresses. One origin-pull address is required for an origin-pull rule. In addition, the value of the origin domain specified for the primary domain name in the Origin server section is used. |
| Port | You can specify a custom origin-pull port number. If you do not specify custom port numbers, port 80 is used for origin-pull over HTTP and port 443 is used for origin-pull over HTTPS. The origin-pull protocol depends on settings of the origin server. If you select HTTPS for Origin-pull Protocol in the Origin server section, the requests hit by an advanced origin-pull rule are forwarded over HTTPS. |

Configuration limitations

- Each domain name can be configured with up to 50 rules.
- The origin-pull address of a single rule can be an IP, domain name, and port (range: 0 65535; port can be omitted). If "HTTPS" or "Follow Protocol" is selected as the origin-pull protocol, the port should be 443 or left empty.
- More actions: you can adjust rule priority and edit or delete multiple rules in batches.

Rule priorities

First, the priority of a client IP rule is lower than that of a path-based rule. Second, if multiple path-based rules are specified, rules at lower positions in the rule list have higher priorities.

For example, you have specified that origin-pull requests of clients from the Jiangsu region are forwarded to

1.1.1.1 and origin-pull requests for files whose path contains /test are forwarded to 2.2.2.2. When a client from the Jiangsu region accesses /test , the origin-pull request is forwarded to 2.2.2.2.

Sample configuration

Example:

This example describes three origin-pull scenarios, assuming that you have configured www.example.com as the CDN acceleration domain name, with the advanced origin-pull rules configured as shown in the following figure:

| Origin-pull Rule | Origin-pull address | Port |
|-----------------------------|---------------------|------|
| File extensionjpg | 1.1.1.1 | - |
| File directory:/vod | 1.1.1.3 | - |
| Full File Path/image/1.jpg | 1.1.1.4 | |
| Homepage/ | 1.1.1.5 | - |
| Client IP LocationGuangdong | 1.1.1.2 | - |

Scenario 1: A client from the Shanghai region accesses http://www.example.com/vod/ . In this case, the origin-pull request hits the **File directory** rule and is forwarded to 1.1.1.3 .

Scenario 2: A client from the Guangdong region accesses http://www.example.com/ . In this case, the origin-pull request hits both the **Homepage** rule and the **Client IP** rule. As the **Homepage** rule has a higher priority, the origin-pull request is forwarded to 1.1.1.5.

Scenario 3: A client from the Guangdong region accesses http://www.example.com/image/1.jpg . In this case, the origin-pull request hits the **File extension**, **Full path**, and **Client IP** rules at the same time. As a path-based rule has a higher priority over an IP-based rule, and the **Full path** rule is listed lower than the **File extension** rule, the origin-pull request is forwarded to 1.1.1.4.

HTTPS Origin-pull algorithm description

Last updated : 2021-11-15 14:24:39

HTTPS origin-pull currently supports the following algorithms (in no particular order):

| ECDHE-RSA- AES256-SHA | ECDHE-RSA-AES256- SHA384 | ECDHE-RSA-AES256-GCM-SHA384 |
|--------------------------------|-------------------------------|-------------------------------|
| ECDHE- ECDSA- AES256-SHA | ECDHE-ECDSA-AES256- SHA384 | ECDHE-ECDSA-AES256-GCM-SHA384 |
| SRP-AES-256- CBC-SHA | SRP-RSA-AES-256-CBC- SHA | SRP-DSS-AES-256-CBC-SHA |
| DH-RSA- AES256-SHA | DH-RSA-AES256- SHA256 | DH-RSA-AES256-GCM-SHA384 |
| DH-DSS- AES256-SHA | DH-DSS-AES256- SHA256 | DH-DSS-AES256-GCM-SHA384 |
| DHE-RSA- AES256-SHA | DHE-RSA-AES256- SHA256 | DHE-RSA-AES256-GCM-SHA384 |
| DHE-DSS- AES256-SHA | DHE-DSS-AES256- SHA256 | DHE-DSS-AES256-GCM-SHA384 |
| CAMELLIA256- SHA | DH-RSA-CAMELLIA256- SHA | DHE-RSA-CAMELLIA256-SHA |
| PSK-3DES- EDE-CBC-SHA | DH-DSS-CAMELLIA256- SHA | DHE-DSS-CAMELLIA256-SHA |
| ECDH-RSA- AES256-SHA | ECDH-RSA-AES256- SHA384 | ECDH-RSA-AES256-GCM-SHA384 |
| ECDH-ECDSA- AES256-SHA | ECDH-ECDSA-AES256- SHA384 | ECDH-ECDSA-AES256-GCM-SHA384 |
| AES256-SHA | AES256-SHA256 | AES256-GCM-SHA384 |
| ECDHE-RSA- AES128-SHA | ECDHE-RSA-AES128- SHA256 | ECDHE-RSA-AES128-GCM-SHA256 |



| ECDHE-RSA- AES256-SHA | ECDHE-RSA-AES256- SHA384 | ECDHE-RSA-AES256-GCM-SHA384 |
|--------------------------------|-------------------------------|-------------------------------|
| ECDHE- ECDSA- AES128-SHA | ECDHE-ECDSA-AES128- SHA256 | ECDHE-ECDSA-AES128-GCM-SHA256 |
| SRP-AES-128- CBC-SHA | SRP-RSA-AES-128-CBC- SHA | SRP-DSS-AES-128-CBC-SHA |
| DH-RSA- AES128-SHA | DH-RSA-AES128- SHA256 | DH-RSA-AES128-GCM-SHA256 |
| DH-DSS- AES128-SHA | DH-DSS-AES128- SHA256 | DH-DSS-AES128-GCM-SHA256 |
| DHE-RSA- AES128-SHA | DHE-RSA-AES128- SHA256 | DHE-RSA-AES128-GCM-SHA256 |
| DHE-DSS- AES128-SHA | DHE-DSS-AES128- SHA256 | DHE-DSS-AES128-GCM-SHA256 |
| ECDH-RSA- AES128-SHA | ECDH-RSA-AES128- SHA256 | ECDH-RSA-AES128-GCM-SHA256 |
| ECDH-ECDSA- AES128-SHA | ECDH-ECDSA-AES128- SHA256 | ECDH-ECDSA-AES128-GCM-SHA256 |
| CAMELLIA128- SHA | DH-RSA-CAMELLIA128- SHA | DHE-RSA-CAMELLIA128-SHA |
| PSK-RC4-SHA | DH-DSS-CAMELLIA128- SHA | DHE-DSS-CAMELLIA128-SHA |
| AES128-SHA | AES128-SHA256 | AES128-GCM-SHA256 |
| SEED-SHA | DH-RSA-SEED-SHA | DH-DSS-SEED-SHA |
| DES-CBC3- SHA | DHE-RSA-SEED-SHA | DHE-DSS-SEED-SHA |
| IDEA-CBC- SHA | PSK-AES256-CBC-SHA | PSK-AES128-CBC-SHA |
| EDH-RSA- DES-CBC3- SHA | ECDH-RSA-DES-CBC3- SHA | ECDHE-RSA-DES-CBC3-SHA |



| ECDHE-RSA- AES256-SHA | ECDHE-RSA-AES256- SHA384 | ECDHE-RSA-AES256-GCM-SHA384 |
|------------------------------|------------------------------|-----------------------------|
| EDH-DSS- DES-CBC3- SHA | ECDH-ECDSA-DES- CBC3-SHA | ECDHE-ECDSA-DES-CBC3-SHA |
| RC4-SHA | ECDH-RSA-RC4-SHA | ECDHE-RSA-RC4-SHA |
| RC4-MD5 | ECDH-ECDSA-RC4-SHA | ECDHE-ECDSA-RC4-SHA |
| SRP-3DES- EDE-CBC-SHA | SRP-RSA-3DES-EDE- CBC-SHA | SRP-DSS-3DES-EDE-CBC-SHA |
| DH-DSS-DES- CBC3-SHA | DH-RSA-DES-CBC3-SHA | - |

Access Control Hotlink Protection Configuration

Last updated : 2021-04-13 18:20:40

Configuration Overview

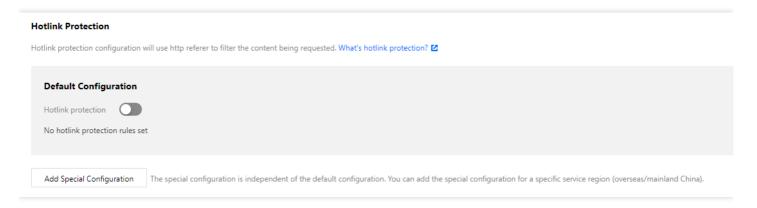
To control the source of access to your business resources, you can use the referer hotlink protection feature in Tencent Cloud CDN.

By configuring an access control policy on the value of the referer field in the HTTP request header, you can control the access source to prevent hotlinking by malicious users.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Access Control** tab to see the **Hotlink Protection Configuration** section. It is disabled by default.



Enabling the configuration

Toggle on the switch, select a hotlink protection type, tick **Allow blank referer** as needed, enter an IP or domain name in the input box, and click **OK**.

| Modified Hotlink protection configura | tion × | |
|---|--------|--|
| Exclude http://, line-feed break; one entry per line; no duplication. If "Allow blank referer" is not checked and no contents are entered, referer hotlink protection feature is not enabled. | | |
| Hotlink protection type O referer blacklist O referer whitelist | | |
| Please enter domain (www.test.com) or IP (203.123.123.123). ; supports front-end wildcards, example: *.test.com | | |
| Allowed to enter: 400. OK Car | ncel | |

Referer blocklist:

- If the referer field of a request matches the string configured in the blocklist, CDN node will not return the requested information and a 403 status code will be returned.
- If the referer field of a request does not match the string configured in the blocklist, CDN node will return the requested information.
- If **Allow blank referer** is ticked, CDN node will not return the requested information and a 403 status code will be returned if the referer field is empty or does not exist in a request (such as a browser request).

Referer allowlist:

- If the referer field of a request matches the string configured in the allowlist, CDN node will return the requested information.
- If the referer field of a request does not match the string configured in the allowlist, CDN node will not return the requested information and a 403 status code will be returned.
- Once the allowlist is configured, CDN node can only return requests that match the string configured in the allowlist.
- If **Allow blank referer** is ticked, CDN node will return the requested information if the referer field is empty or does not exist in a request (such as a browser request).

Configuration limitations:

- Hotlink protection supports domain name/IP rules (if an IP rule is used, prefix matching is available; if a domain name rule is used, prefix matching is not supported). For example, if www.abc.com is configured, then
 www.abc.com/123 will be matched, but www.abc.com.cn will not; if 127.0.0.1 is configured, then
 127.0.0.1/123 will be matched.
- Hotlink protection supports wildcard matching, e.g., if *.qq.com is configured, then both www.qq.com and a.qq.com will be matched.

Disabling the configuration

You can toggle off the switch to disable this feature. When the switch is off, this feature does not take effect in the production environment even if there is an existing configuration. If you toggle the switch on, the configuration will take effect across the entire network after the action is confirmed.

| Hotlink Protection |
|---|
| Hotlink protection configuration will use http referer to filter the content being requested. What's hotlink protection? 🛛 |
| Default Configuration Hotlink protection |
| 1.1.1 |
| |
| Add Special Configuration The special configuration is independent of the default configuration. You can add the special configuration for a specific service region (overseas/mainland China). |

Region-specific configuration

If your acceleration domain name is configured for global acceleration and you want to configure acceleration in and outside the Chinese mainland with different referer hotlink protection settings, you can click **Add Special Configuration**.

| Hotlink Protection | | | | |
|--------------------|---|--|--|--|
| HC | otlink protection configuration will use http referer to filter the content being requested. What's hotlink protection? 🛛 | | | |
| | Default Configuration | | | |
| | Hotlink protection Tules set | | | |
| _ | | | | |
| | Add Special Configuration The special configuration is independent of the default configuration. You can add the special configuration for a specific service region (overseas/mainland China). | | | |

A Note:

Currently, region-specific configuration items cannot be deleted once added but can be disabled.

Configuration Sample

If the hotlink protection configuration of the acceleration domain name www.test.com is as follows:

| Hotlink Protection Hotlink protection configuration will use http referer to filter the content being requested. What's hotlink protection? | | | |
|---|---|--|--|
| Default Configuration Hotlink protection Edit | Overseas Region Configuration Hotlink protection Edit | | |
| refererWhitelist (Allow blank referer) | refererBlacklist (Allow blank referer) | | |
| 1.1.1.1 | 1.1.1.1 | | |

Then the actual access will be as follows:

- 1. If a user in the Chinese mainland initiates a request with the referer field being 1.1.1.1, which matches the allowlist configured for the Chinese mainland, then the requested content will be directly returned.
- 2. If a user outside the Chinese mainland initiates a request with a blank referer, which matches the blocklist configured for regions outside the Chinese mainland, then a 403 status code will be returned.

IP Blocklist/Allowlist Configuration

Last updated : 2024-07-10 16:44:13

Overview

To control the source of access to your business resources, you can use the IP blocklist/allowlist feature in Tencent Cloud CDN.

By configuring an access control policy on IPs of user requests, you can effectively control the source of access, preventing hotlinking by malicious IPs, attacks, etc.

Directions

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Access Control** tab to find the **IP Blocklist/Allowlist Configuration** section. The **On/Off** switch is toggled off by default.

Enabling the configuration

To enable the IP blocklist/allowlist configuration, toggle on the **On/Off** switch. If you enable the IP blocklist/allowlist configuration for the first time and no rule is available, the Add Rule page pops up. The IP blocklist/allowlist configuration takes effect based on the priorities of the rules that you add. The rule at the bottom of the rule list has the highest priority.

Note:

If your acceleration domain name is configured for global acceleration, the IP blocklist/allowlist configuration takes effect globally. This configuration does not distinguish between requests from regions in and outside the Chinese mainland.

Adding or modifying a rule

In the IP Blocklist/Allowlist Configuration section, click Add Rule to add an IP blocklist/allowlist rule.

IP blocklist

If a client IP matches an IP or IP range in the blocklist, the accessed CDN node will directly return a 403 status code. IP allowlist

If a client IP does not match any IP or IP range in the allowlist, the accessed CDN node will directly return a 403 status code.

Configuration limitations

When you add a rule, select **Allowlist** or **Blocklist** as **Rule type**. The IP blocklist and allowlist are mutually exclusive and cannot be configured at the same time.

Up to 500 entries can be added to the blocklist and allowlist respectively.

Do not add entries in the IP:Port format to the IP blocklist or allowlist.

Do not add reserved IPv4/IPv6 addresses or address ranges to the IP blocklist or allowlist.

The rule at the bottom of the rule list has the highest priority.

To modify a rule, click **Modify** on the right of the rule in the **Operation** column.

Adjusting the priority of a rule

To adjust the priority of a rule, click **Adjust priority** above the rule list. Then, click the upward or downward arrow on the right of the rule in the **Operation** column to adjust its priority, as shown in the following figure. If you click the upward arrow, the rule moves up one row. If you click the downward arrow, the rule moves down one row. After you adjust the priority of the rule, click **Save**.

Note:

The lower a rule is in the rule list, the higher its priority.

Deleting rules

To delete a rule, click **Delete** on the right of the rule in the **Operation** column. In the pop-up window, click **OK** to confirm the deletion. The rule is permanently deleted.

Disabling the configuration

To disable the IP blocklist/allowlist configuration, toggle off the **On/Off** switch. After the IP blocklist/allowlist configuration is disabled, you can still modify IP blocklist/allowlist rules. However, the modified rules are not immediately published to the production environment. The rules take effect only when you enable the IP blocklist/allowlist configuration.

Configuration Samples

If the IP blocklist/allowlist configuration of the domain name www.test.com is as follows:

| 1.1.1.1 | |
|---------|--|
| 1.1.1.1 | |

Then the actual access will be as follows:

1. If a user whose IP is 1.1.1.1 requests to access https://www.test.com/test/vod.mp4 , the blocklist rule at the bottom of the rule list is matched. In this case, the access request is denied, and a 403 status code is returned. 2. If a user whose IP is 1.1.1.2 requests to access https://www.test.com/test/vod.mp4 , the blocklist rule is not matched because the IP is not specified in the blocklist rule. The allowlist rule that is configured for the access resource allows access requests only from IP 1.1.1.1. In this case, the access request is denied due to an IP mismatch, and a 403 status code is returned.

3. If a user whose IP is 1.1.1.1 requests to access https://www.test.com/vod.mp4, the allowlist rule instead of the blocklist rule is matched. In this case, the access request is allowed, and the user can access the resource as expected.

IP Access Limit Configuration

Last updated : 2024-07-17 15:00:19

Configuration Overview

To control the source of access to your business resources, you can use the IP access limit feature in CDN. By limiting the number of access requests to a node per second from a client IP, you can defend against high-frequency CC attacks and prevent hotlinking by malicious users.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Access Control** tab to see the **IP Access Limit Configuration** section. It is disabled with no value set by default:

| IP Access Limits | |
|-----------------------|---|
| Set QPS limits for or | e IP to one node to defense CC attacks. What's IP access limit? 🛙 |
| IP Access Limit | |
| IP Access Limit | QPS |

Enabling the configuration

Toggle on the switch, set the threshold, and click **OK**.

| IF | Paccess limit | × |
|----|---|---|
| | Setting an access limit for single IP can help resist part of CC attacks, however it may also block some normal accesses. | |
| | Threshold times/s | |
| | OK Cancel | |

Configuration description

After the configuration is enabled, a 514 error will be returned for requests that exceed the QPS limit. A low access frequency limit may impact the normal use of your business by high-frequency users. Configure a proper frequency limit according to your actual business conditions and use scenarios.

IP access limit is effective for attacks from a single IP to a single node. If a malicious user uses a high number of IPs to attack nodes on your entire network, this feature is no longer applicable.

Disabling the configuration

You can toggle off the switch to disable this feature. When the switch is off, this feature does not take effect in the production environment even if there is an existing configuration. When the switch is on, this configuration will take effect across the entire network:

| IP Access Limits | | |
|-----------------------|---|--|
| Set QPS limits for on | e IP to one node to defense CC attacks. What's IP access limit? 🗹 | |
| IP Access Limit | | |
| IP Access Limit | 100QPS | |

Note:

If your acceleration domain name is configured for global acceleration, the IP access limit configuration will take effect globally. This configuration does not distinguish between requests from regions in and outside the Chinese mainland.

Configuration Sample

The IP access limit for the acceleration domain name www.test.com is as the following:

| IP Access Limits |
|--|
| Set QPS limits for one IP to one node to defense CC attacks. What's IP access limit? 🗹 |
| IP Access Limit DPS |
| |

Then the actual access will be as follows:

1. A user with the client IP 1.1.1.1 requests the resource http://www.test.com/1.jpg for 10 times in one second, and all access requests are made to one server on CDN cache node A. 10 access logs will be generated on this server, 9 of which exceed the QPS limit. The status code "514" will be returned.

2. A user with the client IP 2.2.2.2 requests the resource http://www.test.com/1.jpg twice in one second, and the access requests may be distributed to two CDN cache nodes for processing due to network conditions. Each node will return the content normally.

Video Dragging Configuration

Last updated : 2022-03-09 15:47:26

Overview

• Video dragging generally happens in VOD scenarios. When a user drags the video progress bar, a request similar to the one as shown below will be sent to the server:

http://www.test.com/test.flv?start=10

In this case, data will be returned starting from the 10th byte. Video files in VOD scenarios are all cached on various CDN nodes; therefore, the nodes can directly respond to such requests once this configuration is enabled.

The Ignore Query String configuration should be enabled for video dragging. That is, the Ignore Query String of all rules in [Cache Key Rule Configuration(https://www.tencentcloud.com/document/product/228/35316) should be configured as "Ignore All", and the origin server should support Range requests. Supported file formats are MP4, FLV, and TS.

| File Type | Meta Information | Parameter Description (start) | Request Sample |
|--------------|--|---|---|
| MP4 | For a video on the origin server, the meta information must be located in the file header. Videos with meta information located at the file end are not supported. | The parameter start specifies a time point (in seconds) and uses a decimal to specify a millisecond. For example, "start = 1.01" means that the start time is at 1.01s. CDN will locate the last keyframe before the time specified by start if start is not a keyframe. | http://www.test.com/demo.mp4? start=10 indicates that the video will be played back starting from the 10th second. |
| FLV | The video on the origin server must have meta information. | The parameter start specifies a byte. CDN will automatically locate the last keyframe before the byte specified by start if start is not a keyframe. | <pre>http://www.test.com/demo.flv? start=10 indicates that the video will be played back starting from the 10th byte.</pre> |

| File Type | Meta Information | Parameter Description (start) | Request Sample |
|--------------|------------------|--|---|
| TS | _ | The start parameter defines a start byte. CDN will automatically locate the beginning byte. | <pre>http://www.test.com/demo.ts? start=10 indicates that the video is played from the 10th byte.</pre> |

Viewing the Configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click a streaming VOD acceleration domain name to enter the configuration page. Open the **Access Control** tab to find the **Video Dragging** section. Video dragging is disabled by default.

Video Dragging

By enabling this, you can specify the start point via "start". mp4, flv and ts files are supported. Query string should be ignored as well. What's Video Dragging? 🗳



Authentication Configuration Instruction

Last updated : 2021-01-25 11:35:41

Configuration Scenario

Generally, contents delivered over CDN are public resources by default, which can be accessed by users with URLs. To prevent malicious users from hotlinking your content for profit, you can configure advanced timestamp authentication in addition to access control policies such as referer blocklist/allowlist, IP blocklist/allowlist, and IP access frequency limit.

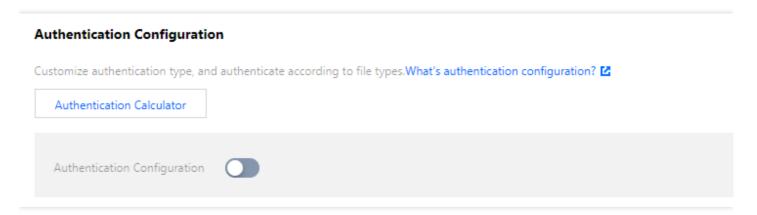
A Note:

After timestamp hotlink protection is configured, the client needs to calculate the signature as configured and carry it to the server when initiating a request. The CDN node will authenticate the signature on the server, which will pass only after successful authentication.

Configuration Guide

Viewing configuration

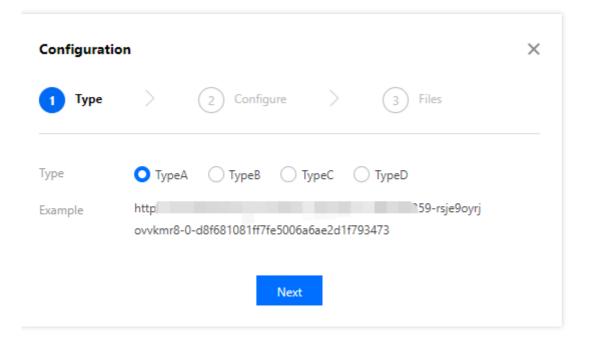
Log in to the CDN Console, select **Domain Management** on the left sidebar, and click **Manage** on the right of the domain name to access its configuration page. Under the **Security Configuration** tab, find the authentication configuration, which is disabled by default:



Modifying configuration

1. Modify the configuration

CDN provides four authentication signature calculation models of your choice. You can use the **Authentication Calculator** provided to view these models. For more information on the configuration effect and algorithms, please see the specific algorithm documents for TypeA, TypeB, TypeC, and TypeD:



2. Disable the configuration

You can toggle the authentication configuration switch to disable this feature. When the switch is off, any existing configuration will not take effect in the production environment. If you toggle the switch on, a message will be displayed

asking for your confirmation before the configuration takes effect across the entire network.

| Authentication Configuration | | |
|------------------------------------|---|--|
| Customize authentication type, and | d authenticate according to file types.What's authentication configuration? | |
| Authentication Calculator | | |
| Authentication Configuration | | |
| Authentication Key | 34yrkoayk7x | |
| Signature Parameter Name | sign | |
| Valid Time | 1 | |
| Time Format | Decimal (Unix timestamp) | |
| Authentication Scope | Authenticate the specified file types | |
| Authentication Files | All | |
| | | |

3. Add a region-specific configuration

If your acceleration domain name is configured for global acceleration and you want acceleration in and outside mainland China to have different authentication configurations, you can click **Add Special Configuration** under the configuration.



A Note :

Currently, an added region-specific configuration item cannot be deleted but can only be disabled.

Configuration Sample

🔗 Tencent Cloud

Suppose the domain name cloud.tencent.com is configured for global acceleration and the authentication configuration is as follows:

| Authentication Configuration | | | | |
|---|---------------------------------------|------------------------------|---------------------------------------|--|
| Customize authentication type, and authenticate according to file types. What's authentication configuration? 🗹 | | | | |
| Authentication Calculator | | | | |
| Default Configuration | | Overseas Region Configu | ration | |
| Authentication Configuration | | Authentication Configuration | Edit | |
| Authentication Key | 3nzn5ihrsewzz9vh | Authentication Mode | ТуреС | |
| Signature Parameter Name | sign | Authentication Key | tteeeee | |
| Valid Time | 1 | Valid Time | 111 | |
| Time Format | Decimal (Unix timestamp) | Time Format | Hexadecimal (Unix timestamp) | |
| Authentication Scope | Authenticate the specified file types | Authentication Scope | Authenticate the specified file types | |
| Authentication Files | All | Authentication Files | All | |

The actual effect will be as follows:

- 1. A user in mainland China can access the resource http://cloud.tencent.com/1.jpg by directly initiating a request.
- 2. A user outside Mainland China can access the resource http://cloud.tencent.com/1.jpg by initiating a request with a URL in the format of

http://cloud.tencent.com/509301d10da7b862052927ed7a947f43/5e561139/1.jpg .

Sample Code

The following is the authentication calculation method with the Demo for Python as an example:

```
import requests
import json
import sys
import time
import hashlib
def generate_url(category, ts=None):
url = 'http://www.test.com' # Test domain name
path = '/1.txt' # Access path
suffix = '?a=1&b=2' # URL parameter
key = 'abc123456789' # Authentication key
now = int(time.mktime(time.strptime(ts, "%Y%m%d%H%M%S")) if ts else time.time())
# If a `ts` is entered, it will be used; otherwise, the current `ts` will be used
sign_key = 'key' # URL signature field
```

```
time_key = 't' # URL time field
ttl_format = 10 # Time format. Valid values: 10, 16. This is supported only for t
vpe D
if category == 'A': # Type A
ts = now
rand str = '123abc'
sign = hashlib.md5('%s-%s-%s-%s' % (path, ts, rand_str, 0, key)).hexdigest()
request_url = '%s%s?%s=%s' % (url, path, sign_key, '%s-%s-%s-%s' % (ts, rand_str,
0, sign))
print(request url)
elif category == 'B': # Type B
ts = time.strftime('%Y%m%d%H%M', time.localtime(now))
sign = hashlib.md5('%s%s%s' % (key, ts, path)).hexdigest()
request_url = '%s/%s/%s%s%s' % (url, ts, sign, path, suffix)
print (request_url)
elif category == 'C': # Type C
ts = hex(now)[2:]
sign = hashlib.md5('%s%s%s' % (key, path, ts)).hexdigest()
request_url = '%s/%s/%s%s%s' % (url, sign, ts, path, suffix)
print(request_url)
elif category == 'D': # Type D
ts = now if ttl_format == 10 else hex(now)[2:]
sign = hashlib.md5('%s%s%s' % (key, path, ts)).hexdigest()
request_url = '%s%s?%s=%s&%s=%s' % (url, path, sign_key, sign, time_key, ts)
print (request_url)
if __name__ == '__main__':
```

```
if len(sys.argv) == 1:
print('usage: python generate_url.py A 20200501000000')
args = sys.argv[1:]
generate_url(*args)
```

ТуреА

Last updated : 2023-06-29 17:45:01

You can add authentication to prevent hotlinking of your website. Tencent Cloud supports Type A, B, C and D authentication. This document describes details of Type A authentication.

Algorithm Description

Access URL format

http://DomainName/Filename?sign=timestamp-rand-uid-md5hash

Note :

The access URL cannot contain any Chinese characters.

Description of authentication fields

| Field | Description |
|------------|--|
| DomainName | CDN domain. |
| Filename | Resource access path. During authentication, `Filename` must start with a slash ($/$). |
| timestamp | The time when the server generates the authentication URL. It is a positive hex integer Unix timestamp, which is the total number of seconds between 00:00:00, January 1, 1970, UTC time and the URL generation time. Its definition is irrelevant to the time zone. |
| rand | A random string consisting 0-100 characters ([0-9], [a-z], [A-Z]). |
| uid | User ID (not in use), which defaults to 0. |
| md5hash | A string containing 32 characters calculated based on the MD5 algorithm. It is calculated as follows: • `md5hash = md5sum(uri-timestamp-rand-uid-pkey)`. • `uri`: It is the resource access path and must start with a slash (/). • `timestamp`: Its value is the above `timestamp`. • `rand`: Its value is the above `rand`. • `uid`: Its value is the above `uid`. • `pkey`: It can contain 6 to 40 letters and digits. It should be kept private and disclosed to only the client and server. |

Authentication logic description

After the CDN server receives a user request, it parses the timestamp parameter in the URL and the validity period of the authentication URL and compares it with the current time.

- i. If the sum of timestamp and the validity period of the authentication URL is before the current time, the server judges that the URL has expired and is invalid and returns the HTTP error code 403.
- ii. If the sum of timestamp and the validity period of the authentication URL is after the current time, the server uses the MD5 algorithm to calculate the value of md5hash and it with the md5hash value passed in by the URL. If they are the same, the request will pass the authentication; otherwise, the HTTP error code 403 will be returned.

Configuration Directions

Here we take Type-A authentication as an example.

- Field configuration
 - Authentication key: dimtm5evg50ijsx2hvuwyfoiu65
 - Signature parameter: sign

• Validity period of the authentication URL: 1s

| Authentication Co Select a mod 3 Configure Fi | de > 2 Configure Parameter > |
|---|---|
| Primary key | dimtm5evg50ijsx2hvuwyfoiu65 |
| Secondary key | Enter 6-40 characters containing letters and digits Auto-create |
| Signature parameter | sign |
| Valid Time Time format | - 1 + s Decimal (Unix timestamp) |
| | Back Next |

- The time when the signature calculation server generates the authentication URL: 2020-02-27 16:10:32 (UTC+8). Its decimal integer value after conversion is 1582791032 (timestamp).
- Requested origin address: http://www.mixcre.com/test/1.jpg

Generation process

• Get authentication parameters:

| Parameter | Value |
|-----------|---|
| URI | Resource access path, which is `/test.jpg`. |
| timestamp | 1582791032 |
| rand | Generate a random string: im1acp76sx9sdqe601v |



| Parameter | Value |
|-----------|-----------------------------|
| uid | Set it to `0` |
| pkey | dimtm5evg50ijsx2hvuwyfoiu65 |

- Concatenate the signature string: /test.jpg-1582791032-im1acp76sx9sdqe601v-0-dimtm5evg50ijsx2hvuwyfoiu65
- Calculate the MD5 value of the signature string: md5hash =md5sum(uri-timestamp-rand-uid-pkey)= md5sum(/test.jpg-1582791032-im1acp76sx9sdqe601v-0-dimtm5evg50ijsx2hvuwyfoiu65) = 3fbb88382c9356b6faaf9d68c7b2ae3a

 Generate the authentication URL: http://www.mixcre.com/test/1.jpg?sign=1682234383-YES3WZ57u91G3zA1YYzh5Y3aIy6U2i0K-0-57b80424b3e6f9da4027fe13c00c44a7
 When the client uses the encryption URL for access, if the md5hash value calculated by the CDN server is the same as the md5hash value carried by the access request, which are both

3fbb88382c9356b6faaf9d68c7b2ae3a in this example, the request will pass the authentication; otherwise, the authentication will fail.

Notes

Cache hit rate

For domain names using TypeA authentication mode, the access URL will carry the authentication parameter. When a CDN node caches the resource, the corresponding parameter will be ignored and thus will not affect the cache hit rate.

Note:

As the authentication parameter will be automatically ignored, the cache keys of the files to be authenticated will be affected, and the priority here is higher than the cache key rules in **Cache Configuration** -> **Cache**

Key Rule Configuration.

For example, the Type A configuration here is as: "Authentication Parameter: sign "; "Authentication Scope: jpg "; then the sign parameter will be automatically ignored for JPG files even though the configuration is as "All Files: Not Ignore" in **Cache Configuration** -> **Cache Key Rule Configuration**.

Origin-pull policy

The access format of a domain name with Type A authentication mode enabled is as follows:

http://DomainName/Filename?sign=timestamp-rand-uid-md5hash

If the CDN node is not hit after successful authentication, it will initiate an origin-pull request, **which is in the same** format as the access request with the sign parameter retained. The origin server can ignore it or perform authentication again as needed.

ТуреВ

Last updated : 2021-01-25 14:36:36

Algorithm Description

Access URL format

http://DomainName/timestamp/md5hash/FileName

Algorithm description

- timestamp: A timestamp in the format of YYYYMMDDHHMM .
- md5hash: MD5 (custom key + timestamp + file path).

Sample request

http://cloud.tencent.com/202003032017/b91bad39a0f9c885ddebd6b6164de3c4/test.jpg

A Note:

When the MD5 value is calculated, if the request path is http://cloud.tencent.com/test.jpg, then
the path used for MD5 calculation will be /test.jpg.

Configuration Guide

Parameter description



TypeB requires the following configurations:

| Authentication Configuration X | | | | |
|---|--|--|--|--|
| Select a mode > 2 Configure Parameter > | | | | |
| 3 Configure I | Files | | | |
| Authentication Key | cqp7k0v7bI5p3I | | | |
| | Enter a key consisting of 6 to 40 digits, uppercase and lowercase letters. Randomly generate | | | |
| Valid Time | - 2 + | | | |
| Time Format | Decimal (YYYYMMDDHHMM) | | | |
| | Previous Next | | | |

Custom Authentication Key: it can contain 6 to 40 digits, uppercase and lowercase letters. It should be kept private and disclosed to only the client and server.

Custom Validity Period: the timestamp value in the request path plus the configured validity period is compared with the current time to determine whether the request has expired; if so, a 403 error will be directly returned.

Object

After configuring the key, parameter name, and validity period, you can specify the authentication object as needed. The following three authentication modes are supported:



| Authentication Configuratio | n | | × |
|-----------------------------|---|---|---|
| Select a mode | Configure Parameter | > | |
| 3 Configure Files | | | |
| Authentication Scope O All | | | |
| Authe | nticate the specified file types | | |
| 🔵 Do no | t authenticate the specified file types | | |
| | Previous Save | | |

- All files under a specified domain name need to be authenticated.
- All files except those of a specified type need to be authenticated.
- Only files of a specified type need to be authenticated.

Notes:

Cache hit rate

If you have enabled TypeB authentication for a domain name, the signature and timestamp will be carried in the access URL path. When a CDN node caches a resource, it will automatically ignore the fields in the path and thus not affect the cache hit rate.

Origin-pull policy

The access format of a domain name with TypeB authentication mode enabled is as follows:

http://DomainName/timestamp/md5hash/FileName

If no hits are found on the CDN node after successful authentication, the node will initiate an origin-pull request, in which the md5hash and timestamp will be removed from the path. The origin server does not require any configuration.

ТуреС

Last updated : 2022-09-29 17:56:26

To protect your site resources from being downloaded or stolen by unauthorized users, you can choose an authentication method from Types A, B, C, and D as needed. This document describes parameter fields and their purposes in TypeC authentication.

Algorithm Description

Access URL format

http://DomainName/md5hash/timestamp/FileName

Note:

The access URL cannot contain any Chinese characters.

• Description of authentication fields

| Field | Description |
|------------|---|
| DomainName | CDN domain. |
| Filename | Resource access path. During authentication, `Filename` must start with a slash (/). |
| timestamp | The time when the server generates the authentication URL. It is a positive hex integer Unix timestamp, which is the total number of seconds between 00:00:00, January 1, 1970, UTC time and the URL generation time. Its definition is irrelevant to the time zone. |
| md5hash | A string containing 32 characters calculated based on the MD5 algorithm. It is calculated as follows: • There are no symbols between parameters in `md5hash = md5sum(pkeytimestampuri)`. • pkey: It can contain 6–40 letters and digits. It should be kept private and disclosed to only the client and server. • uri: It is the resource access path and must start with a slash (/). • timestamp: Its value is the above `timestamp`. |

Authentication logic description

After the CDN server receives a user request, it parses the timestamp parameter in the URL and the validity

period of the authentication URL and compares it with the current time.

- i. If the sum of timestamp and the validity period of the authentication URL is before the current time, the server judges that the URL has expired and is invalid and returns the HTTP error code 403.
- ii. If the sum of timestamp and the validity period of the authentication URL is after the current time, the server uses the MD5 algorithm to calculate the value of md5hash and it with the md5hash value passed in by the URL. If they are the same, the request will pass the authentication; otherwise, the HTTP error code 403 will be returned.

Directions

Taking the configuration of TypeC authentication as an example, the parameters and console configuration items are configured as follows:

- Field configuration
 - Authentication key: dimtm5evg50ijsx2hvuwyfoiu65
 - Validity period of the authentication URL: 1s
 - The time when the signature calculation server generates the authentication URL: 2020-02-27 16:10:32 (UTC+8). Its decimal integer value after conversion is 1582791032 (timestamp).
 - Requested origin address: http://cloud.tencent.com/test.jpg
- Generation process
 - Get authentication parameters:

| Parameter | Value |
|-----------|---|
| URI | Resource access path, which is `/test.jpg`. |
| timestamp | 1582791032 |
| pkey | dimtm5evg50ijsx2hvuwyfoiu65 |

- Concatenate the signature string: dimtm5evg50ijsx2hvuwyfoiu651582791032/test.jpg
- Calculate the MD5 value of the signature string: md5hash = md5sum(pkeytimestampuri)
 =md5sum(dimtm5evg50ijsx2hvuwyfoiu651582791032/test.jpg) = ea68b93ac23ebbc6eebf7f163c6e9c4c

Generate the authentication URL:

http://cloud.tencent.com/ea68b93ac23ebbc6eebf7f163c6e9c4c/1582791032/test.jpg When the client uses the encryption URL for access, if the md5hash value calculated by the CDN server is the same as the md5hash value carried by the access request, which are both ea68b93ac23ebbc6eebf7f163c6e9c4c in this example, the request will pass the authentication; otherwise, the authentication will fail.

Notes

Cache hit rate

If you have enabled TypeC authentication for a domain, the signature and timestamp will be carried in the access URL path. When a CDN node caches the resource, it will automatically ignore the authentication path and thus not affect the cache hit rate.

Origin-pull policy

The access format of a domain name with TypeC authentication mode enabled is as follows:

http://DomainName/md5hash/timestamp/FileName

If the CDN node is not hit after successful authentication, it will initiate an origin-pull request, in which the

md5hashandtimestampwill be removed from the path. The origin server does not need to process theauthentication information.

TypeD

Last updated : 2021-01-25 14:52:24

Algorithm Description

Access URL format

http://DomainName/FileName?sign=md5hash&t=timestamp

Algorithm description

- timestamp : a decimal or hexadecimal timestamp in UNIX format.
- md5hash : MD5 (custom key + file path + timestamp).

Sample request

http://cloud.tenloud.tencent.com/test.jpg? sign=0f8201d814dfaf64cf54e74c5f7dbcb0&t=1582791032

▲ Note:

When the MD5 value is calculated, if the request path is http://cloud.tencent.com/test.jpg , then
the path used for MD5 calculation will be /test.jpg .

Configuration Guide

Parameter Description

TypeD requires the following configurations:

| Authentication Configur | ation | × |
|------------------------------------|--|---|
| Select a mode 3 Configure Files | > 2 Configure Parameter > | |
| Authentication Key | cqp7k0v7bl5p3l Enter a key consisting of 6 to 40 digits, uppercase and lowercase letters. Randomly generate | |
| Signature Parameter Name | sign | |
| Timestamp Parameter Name | t |] |
| Valid Time | - 2 + | |
| Time Format | Decimal (Unix timestamp) Hexadecimal (Unix timestamp) | |
| | Previous Next | |

Custom authentication key: it contains 6 to 40 digits and uppercase and lowercase letters. The key should be kept private and known only to the client and server.

Custom authentication parameter name and timestamp parameter name: the sign in the example can be replaced with a parameter name containing 1 to 100 uppercase and lowercase letters, digits, and underscores. After CDN receives the request, it will read the value of the specified signature parameter and calculate the MD5 value. If the result matches the md5hash value passed in, the signature will be successfully verified. If not, a 403 error will be directly returned.

Custom validity period: the timestamp value in the timestamp parameter, plus the configured validity period, is compared with the current time to determine whether the request has expired. If yes, a 403 error will be directly returned. The validity period is in seconds.

Object

After configuring the key, parameter name, and validity period, you can specify the authentication object as needed. The following three authentication modes are supported:

| Authentication Configuration | | × |
|--|---|---|
| Select a mode > Configure Parameter | > | |
| 3 Configure Files | | |
| Authentication Scope O All | | |
| Authenticate the specified file types | | |
| Do not authenticate the specified file types | | |
| Previous Save | | |

- All files under a specified domain name need to be authenticated.
- All files except those in a specified type need to be authenticated.
- Only files in a specified type need to be authenticated.

Notes

Cache hit rate

If you have enabled the TypeD authentication mode for a domain name, the access URL will carry the authentication parameter. When a CDN node caches the resource, it will automatically ignore the corresponding parameter and thus will not affect the cache hit rate.

A Note :

As the corresponding parameter will be automatically ignored after the configuration, i.e., the configured authentication and timestamp parameters will be filtered, the cache keys of the files to be authenticated will be affected, and the priority here is higher than the cache key rules in **Cache Configuration** -> **Cache Key Rule Configuration**.

For example, the TypeD configuration here is as: "Authentication Parameter: sigh "; "Timestamp Parameter: t "; "Authentication Scope: jpg "; then the sign and t parameters will be automatically filtered for JPG files even though the configuration is as "All Files: Do Not Filter" in **Cache Configuration** -> **Cache Key Rule Configuration**.

Origin-pull policy

The access format of a domain name with TypeD authentication mode enabled is as follows:

http://DomainName/FileName?sign=md5hash&t=timestamp

If the CDN node is not hit after successful authentication, it will initiate an origin-pull request, **which is in the same** format as the access request with the sign/t parameter retained. The origin server can ignore it or perform authentication again as needed.

UA Blocklist/Allowlist Configuration

Last updated : 2020-11-26 15:01:54

Configuration Overview

Tencent Cloud CDN supports configuring User-Agent (UA) blocklist/allowlist rules for access control. CDN checks the User-Agent field in HTTP request headers based on the rules to allow or reject user access requests.

Configuration Guide

Configuration limitations

- The blocklist and allowlist cannot be set at the same time. Please set either the blocklist rules or the allowlist rules.
- Maximum number of blocklist/allowlist rules: 10
- Rules support the wildcard * . Please separate multiple values with | .
- Supported effect types: all content, file extension, file directory, and specified file. Regular matching is currently not supported.

Configuration instructions

Log in to the CDN Console, select **Domain Management** on the left sidebar, and then click **Manage** on the right of a domain name to enter its configuration page. Select **Access Control** tab to find the UA blocklist/allowlist configuration, which is disabled by default:

| UA Blocklist/Allowlist Configuration Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header.What's UA blocklist/allowlist configuration? I UA Blocklist/Allowlist The configuration below can be modified when it is disabled, but the configuration will not be deployed officially until it is enabled. Add Rule Rule Type Rule Content Effectiveness Type Effectiveness Rule Operation No data yet | | | | | | | |
|---|--|--|---|----------------------|-----------|--|--|
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header.What's UA blocklist/allowlist configuration? | No data yet | | | | | | |
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? | Rule Type | Rule Content | Effectiveness Type | Effectiveness Rule | Operation | | |
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? | Add Rule | | | | | | |
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? 🗹 | The configuration below car | be modified when it is disabled, but the o | configuration will not be deployed officially | until it is enabled. | | | |
| | UA Blocklist/Allowlist | | | | | | |
| UA BIOCKIIST/Allowiist Configuration | Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? 🖾 | | | | | | |
| | UA Blocklist/Allowlist | Configuration | | | | | |





When the switch is toggled off, click Add Rule to add blocklist/allowlist rules one by one:

| Set UA Blocklist, | /Allowlist Rule | × |
|--------------------|---|---|
| Rule Type | O Blocklist O Allowlist | |
| Rule Content | *android* | |
| Effectiveness Type | All Content File ext File Directory Specified File | |
| Effectiveness Rule | * | |
| | Confirm Cancel | |

A Note:

- 1. Only the wildcard 💉 is supported; other regular expressions are not supported.
- 2. If there is no (*), all characters will be used for exact match.



The overall configuration will be disabled after a rule is added, so the ongoing services will not be affected:

| UA Blocklist/Allowlist Configu | ration | | | | | | |
|--|--|---|--------------------|-----------|--|--|--|
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? 🔀 | | | | | | | |
| UA Blocklist/Allowlist | | | | | | | |
| The configuration below can be modif | ied when it is disabled, but the configura | tion will not be deployed officially until it | is enabled. | | | | |
| Add Rule | | | | | | | |
| Rule Type | Rule Content | Effectiveness Type | Effectiveness Rule | Operation | | | |
| Blocklist *andriod* All Content * Modify Delete | | | | | | | |
| - | | | | | | | |

You can toggle the switch on to officially deploy the configured UA blocklist/allowlist.

| UA Blocklist/Allowlist | Configuration | | | | | |
|--|--|--|----------------------|---------------|--|--|
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? 🗳 | | | | | | |
| UA Blocklist/Allowlist | | | | | | |
| The configuration below ca | n be modified when it is disabled, but the c | onfiguration will not be deployed officially | until it is enabled. | | | |
| Rule Type | Rule Content | Effectiveness Type | Effectiveness Rule | Operation | | |
| Blocklist | *andriod* | All Content | × | Modify Delete | | |
| ۱ | | | | | | |

Configuration Samples



The UA blocklist/allowlist configuration of cloud.tencent.com is as follows:

| UA Blocklist/Allowlist C | onfiguration | | | | |
|--|--|---|----------------------|-----------------|--|
| Controlling access by setting the blocklist and allowlist for the User-Agent value in the request header. What's UA blocklist/allowlist configuration? 🔀 | | | | | |
| UA Blocklist/Allowlist | C | | | | |
| The configuration below can | be modified when it is disabled, but the | configuration will not be deployed officially | until it is enabled. | | |
| Add Rule | | | | | |
| Rule Type | Rule Content | Effectiveness Type | Effectiveness Rule | Operation | |
| Blocklist | *Chrome* | All Content | * | Modify Delete | |
| | | | | | |

If User-Agent in the HTTP request header is as follows:

user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_5) AppleWebKit/537.36 (K HTML, like Gecko) Chrome/83.0.4103.61 Safari/537.36

The blocklist will be hit and a 403 error will be directly returned.

Downstream Speed Limit Configuration

Last updated : 2023-03-10 14:25:21

Overview

Tencent Cloud CDN supports downstream speed limit configuration for setting the maximum downstream throughput speed over one single URL on the server.

The downstream speed limit configuration can control the peak bandwidth of CDN to a certain degree. It is frequently used in scenarios such as ecommerce promotions and new game version releases and updates.

Note:

The downstream speed limit configuration takes effect globally for all users who access the domain name. After the downstream speed limit is configured, the user access experience and CDN acceleration effect may be affected. Therefore, configure the downstream speed limit with caution.

Directions

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Access Control** tab to find the **Downstream Speed Limit Configuration** section. The **Downstream Speed Limit** switch is toggled off by default.

| tting the downstream speed limi | nfiguration t on an URL can control the CDN access bandwidth. | What's downstream speed limit configuration? | |
|---|--|---|-----------|
| ownstream Speed Limit | | | |
| ne configuration below can be mo | odified when it is disabled, but the configuration wil | not be deployed officially until it is enabled. | |
| | | | |
| Add Speed Limiting Rule | Adjust Priority | | |
| Add Speed Limiting Rule Effectiveness Type | Adjust Priority Effectiveness Rule | Speed Limiting Settings | Operation |



Adding rules

Click Add Speed Limit Rule to configure a rule:

| F | Add Speed Limiting | Rule | × | s Rul |
|----|-------------------------|--|---|-------|
| | Rule Type | All Content Specified File Type Specified Folder Specified File | | |
| it | Rule Content | * | | |
| | Speed Limiting Settings | — 0 + KB/s | | |
| be | | Confirm Cancel | | |
| | | | | |

Configuration limitations

- Maximum number of downstream speed limit rules: 10
- Unit: KB/s; value range: 1-1,000,000 (integers only)
- Supported rule types: all content, specified file type, specified folder, and specified file. Regular matching is currently not supported.
- Rules are executed from bottom to top. Rules at the bottom have higher priority.

Configuration Samples



The downstream speed limit configuration of cloud.tencent.com is as follows:

| tting the downstream speed lin | nit on a URL can control the CDN access bandwidth | n. What's downstream speed limit configuration 🗳 | |
|--------------------------------|--|---|-----------------|
| I/Off 🛛 🚺 The configurat | ion below can be modified when it is disabled, but | the configuration will not be deployed officially until it is | s enabled |
| | | | |
| Add Rule Adjust pri | prity | | |
| | Effect Rule | Second Line's Sections | Orantia |
| Effect Type | Effect Rule | Speed Limit Settings | Operation |
| | | | |
| All Content | * | 400KB/s | Modify Delete |
| All Content | * | 400KB/s | Modify Delete |

If a user accesses the resource http://cloud.tencent.com/test.mp4, the server will return the content at the configured downstream speed of 200 KB/s.

If a user accesses the resource http://cloud.tencent.com/test.flv, the server will return the content at the configured downstream speed of 400 KB/s.

Access Port Configuration

Last updated : 2023-06-13 11:10:55

Configuration Overview

By default, CDN supports port 80, 8080, and 443. You can disable any of them as needed.

Note :

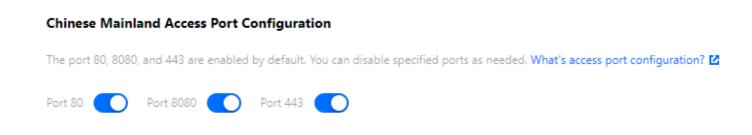
- Port configuration is now only available in the Chinese mainland. If a domain name is configured for global acceleration, then the configuration changes will take effect only in the Chinese mainland.
- This feature may be unavailable in some platforms. We will complete server upgrade as soon as possible.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page. Open the **Access Control** tab to find the **Chinese Mainland Access Port Configuration** section.

Port 80, 8080, and 443 are enabled by default.



Modifying the configuration

You can disable and enable the ports as needed.

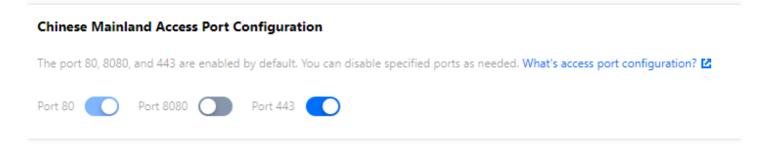
Modification limitations

• If HTTPS access or forced HTTPS redirection is enabled for a domain name, Port 443 cannot be disabled.

• Either Port 80 or 8080 must be opened.

Configuration Samples

If the **Chinese Mainland Access Port Configuration** of the acceleration domain name www.test.com is as follows:



Then the actual access will be as follows:

CDN nodes deny all access requests from the port 8080.

• If a domain name is configured for global acceleration, the configuration will only take effect in the Chinese mainland, which means that the CDN nodes will deny the access requests from the port 8080.

Cache Configuration Cache Key Rule Configuration

Last updated : 2021-04-09 18:14:48

Configuration Overview

Tencent Cloud CDN uses the Key-Value format to map resources during caching, where Key is the cache key and a unique identifier of the cached resource. By configuring cache key rules, you can configure the Ignore Query String and Cache Ignore URL Case features for the content of different file types to optimize cache keys.

Ignore Query String

• When a user accesses the resource through a URL, the access request may carry some parameters for special purposes. For example, the following URLs are used to represent two different images:

http://cloud.tencent.com/1.jpg?version=1

http://cloud.tencent.com/1.jpg?version=2

In this scenario, you need to disable Ignore Query String and use a complete URL as the cache key to cache images and distinguish between resources.

• If you use the timestamp signature parameter for access authentication in an audio/video scenario:

http://cloud.tencent.com/1.mp4?sign=XXXXXX

In this scenario, you need to enable Ignore Query String and use the URL part before "?" (i.e.,

http://cloud.tencent.com/1.mp4) as the cache key. The node will then only cache one resource, and the cache can be directly hit through signature authentication even if the timestamp signature keeps changing.

Cache Ignore URL Case

If the letter case of resource URL paths is relevant to the resource content in your business, you can disable "Cache Ignore URL Case".

If the letter case of resource URL paths is irrelevant to the resource content in your business, you can enable "Cache Ignore URL Case" to improve the hit rate.

A Note:

The platform is being upgraded and Cache Ignore URL Case cannot be enabled currently.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Select the **Cache Configuration** tab to find the **Cache Key Rule Configuration** section.

When adding an acceleration domain name, the Ignore Query String is enabled or disabled by default based on different acceleration business types.

- If static acceleration is selected, the Ignore Query String is disabled by default. In the cache key configuration, the Ignore Query String of all file rules will be synced to **Not Filter**.
- If downloading or streaming VOD acceleration is selected, the Ignore Query String is enabled by default. In the cache key configuration, the Ignore Query String of all file rules will be synced to **Filter All**.

| ache Key Rule Configuratio | on | | | | |
|-----------------------------------|--|---|-----------------|-----------|--|
| onfigure the cache key rule to co | infigure filtering parameters and ignore case fo | or the content of different file types.How to set the cache key r | rule? 🖸 | | |
| Add Rule Adjust Prio | rity | | | | |
| | | | | | |
| Туре | Content | Ignore Query String | Ignore URL Case | Operation | |
| All Files | All Files | Reserve Specified Parameter version | No | Modify | |

Adding rules

You can add cache rules as needed.

| Add Cache Key Ru | le | × |
|---------------------|---|---|
| Туре | Specified File Type 💌 | |
| Content | jpg:png;css |] |
| Ignore Query String | O Not filter O Filter All O Reserve Specified Parameter | |
| Ignore URL Case | 🗌 Yes 🔵 No | |
| | Save Cancel | |

Configuration limitations

- Each domain name can be configured with up to 20 cache key rules (including the default ones).
- Rule priority can be adjusted: rules at the bottom of the list have higher priority (the priority of default rules cannot be adjusted).
- In each rule of specified file type, folder, and full-path file, up to 100 groups of contents can be entered. Please use
 ";" to separate different contents, e.g., "Specified file type jpg;png".
- Ignore Query String Reserve Specified Parameters.
 - All files: up to 6 parameter names can be entered; each one can contain up to 20 characters.
 - Specified file type/folder/full-path file: up to 5 parameter names can be entered; each one can contain up to 20 characters.

Separate each parameter name with ";". For example: key1;key2;key3.

Modifying rules

You can click **Modify** to modify the added cache key rules.

▲ Note:

The default rules support modifying Ignore Query String and Cache Ignore URL Case configurations, while the type and content cannot be modified.

Deleting rules

You can click **Delete** to delete the added cache key rules (except the default ones).

Configuration Samples

If the cache key rule configuration of the acceleration domain name www.test.com is as follows:

| ache Key Rule Configuration | | | | |
|------------------------------------|--|---|-----------------|---------------|
| nfigure the cache key rule to conf | igure filtering parameters and ignore case f | or the content of different file types.How to set the cache key | rule? 🖸 | |
| Add Rule Adjust Priority | y l | | | |
| | | | | |
| Туре | Content | Ignore Query String | Ignore URL Case | Operation |
| All Files | All Files | Reserve Specified Parameter version | No | Modify |
| pecified File Type | ipg:png | Filter All | No | Modify Delete |

Then the actual access will be as follows:

A client accessed the resources www.test.com/abc.jpg?version=1&colour=red and

www.test.com/abc.JPG?version=1&colour=red , the two requests arrived at the CDN node X, on which the resources are not cached.

- The origin server will be pulled for the image <u>abc.jpg</u>, and the image will be cached on the CDN node X. As Ignore Query String is enabled and **Filter All** is selected, the URL part <u>www.test.com/abc.jpg</u> before "?" will be used as the cache key.
- The client accessed the resource www.test.com/abc.JPG?version=1&colour=red, and as the Cache Ignore URL Case is disabled, the cached resource www.test.com/abc.jpg will not be hit, the origin server will be pulled for the image abc.JPG, the image will be cached on the CDN node X, and www.test.com/abc.JPG will be used as the cache key.

Node Cache Validity Configuration

Last updated : 2022-09-15 16:12:59

You can set the cache validity period of resources on the origin server on CDN nodes in **Node Cache Validity** to adjust the cache update frequency of origin server resources on the CDN nodes. You can configure the resource cache validity period by directory, file extension, and full file path based on your business needs.

Overview

CDN will determine whether a resource cached on a CDN node expires based on the cache validity period configured in **Node Cache Validity**.

- If the cache of a resource accessed by an end user doesn't expire on the CDN node, the node will directly return the cached resource to the user.
- If a resource accessed by an end user is not cached, or the resource cache has expired on the CDN node, the node will pull the latest resource from the origin server to cache it and return it to the user.

After a resource on the origin server is updated, its cache on the CDN node must be updated immediately. You can use the cache purge feature to update unexpired caches on the CDN node, so as to ensure that resources cached on the CDN node and stored on the origin server are consistent.

Notes

- As the cache validity period affects the origin-pull frequency, we recommend you set the resource cache validity
 period based on your business needs. If it is too short, CDN will perform origin-pull frequently, thereby increasing
 the bandwidth usage of the origin server. If it is too long, caches on CDN nodes will be updated slowly, making end
 users unable to get the latest resources.
- CDN nodes cache resources based on the CDN cache rule and priority. However, resources cached on a CDN node may be deleted from the node before the expiration time due to a low request frequency.
- We recommend you use different filenames before and after updating a resource on the origin server. For example, name resources with different content by version numbers <code>img-v1.jpg</code> and <code>img-v2.jpg</code>, to prevent CDN nodes from returning the old but unexpired resource to the end user after the resource content is changed on the origin server.
- If you still use the legacy version (in basic mode) of the node cache validity configuration, we recommend you submit the advanced mode configuration to upgrade the node cache validity configuration to the latest version so as to support more features. Note that after the upgrade to the advanced mode, you cannot restore to the basic mode.

For more information on the legacy version of the node cache validity configuration, see Node Caching Rule Configuration (Legacy).

• The origin server can set the Cache-Control response header to control the cache validity period on CDN nodes (when **Cache Option** is **Follow Origin Server**). Then, CDN nodes will pass the Cache-Control header to the end user to control the browser cache validity period. If you want CDN nodes to set the browser cache validity period, you can modify the Cache-Control header returned by CDN nodes to the user in Browser Cache Validity.

Configuration Description

Directions

- 1. Log in to the CDN console.
- 2. Click Domain Management on the left sidebar to enter the domain name management list.
- 3. Select the target domain name and click **Manage** to enter the domain name configuration page.
- 4. Click **Cache Configuration** to switch to the **Cache Configuration** tab, and you can view the **Node Cache Validity**.

| Add Rule Adjust priority | | | Enter keywords Q |
|--------------------------|------------------|-------------------|--------------------------------|
| Туре | Content | Validity | Operation |
| All Files | All Files | Cache for 30 days | Modify Delete |
| File Extension | php;jsp;asp;aspx | No Cache | Modify Delete |
| Total items: 2 | | | 10 💌 / page 🖂 🖛 1 / 1 page 🕨 🖻 |

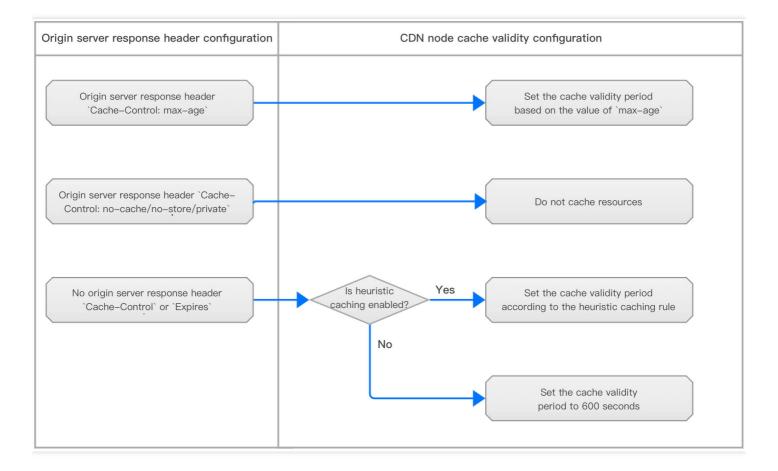
5. Click Add Rule to enter the Add Rule page and add a node cache validity rule.

| Add Rule | | | |
|-----------------|--|---|--|
| Туре | File Extension | v | |
| Content | | | |
| Cache Option | Follow Origin Server | v | |
| Heuristic cache | It takes effect when Control or Expires | the origin server responds without Cache- | |
| | ОК | Cancel | |

| Configuration Item | Description |
|--------------------|---|
| Туре | You can select All Files, File Extension, File Directory, Full Path, or Homepage. All Files: Set the rule for all files. This is the default option. File Extension: Set the rule for the specified file extension. File Directory: Set the rule for the specified file directory. Full Path: Set the rule for the specified full file path. Homepage: Set the rule for the specified domain name root directory. |
| Content | Enter the content based on the selected file type. If Type is All Files , the content is fixed to all files. If Type is File Extension , you can enter one or multiple file extensions separated by ";", such as `jpg;png;css`. If Type is File Directory , you can enter one or multiple file directories separated by ";", and the entered content cannot end with "/", such as `/test;/a/b/c`. If Type is Full Path , you can enter one or multiple full file paths separated by ";", such as `/index.html;/test/.jpg`. |
| Cache Option | You can select Follow Origin Server , Cache , or Do not cache . Follow Origin Server: The CDN node cache validity period will be set based on the `Cache-Control` origin server header, and heuristic caching can be enabled. Cache: You can customize the CDN node cache validity period and enable force cache. Do not cache: CDN nodes will not cache any resources. |

CDN cache rule and priority

Cache Option is Follow Origin Server



The cache validity period will be set on CDN nodes based on the Cache-Control origin server response header.

- If the field in the Cache-Control origin server response header is max-age, the CDN node cache validity period will be set based on the value of max-age. For example, if Cache-Control: max-age=300 is configured, the cache validity period will be 300 seconds.
 - If the field in the Cache-Control origin server response header is no-cache, no-store, or private, the CDN node will not cache resources.
 - If there is no Cache-Control or Expires origin server response header, the cache rule will be set based on the heuristic caching status:
 - If heuristic caching is disabled and there is no Cache-Control or Expires origin server response header, the cache validity period will be 600 seconds.
 - If heuristic caching is enabled and there is no Cache-Control or Expires origin server response header, the heuristic cache validity period will be set according to the following rules:

i. **Default Configuration**: If there is the Last-Modified origin server response header, the cache validity period will be calculated as follows: (current time - Last-Modified) * 0.1. If there is no Last-Modified origin server response header, the cache validity period will be 600 seconds by default.

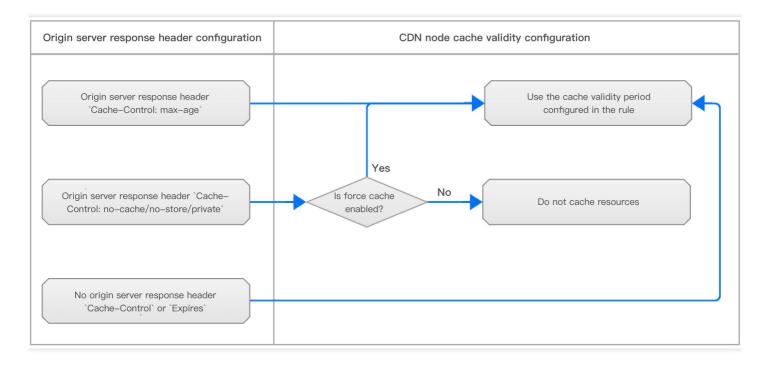
| Add Rule | | > |
|-----------------|--|--------|
| Туре | File Extension 💌 | |
| Content | | |
| Cache Option | Follow Origin Server 🔻 | |
| Heuristic cache | It takes effect when the origin server responds without (Control or Expires | Cache- |
| Cache policy | O Default Configuration O Custom policy | |
| | If the response header of the origin server Last-Modified exists, cache time is (Current time - Last modified time) * 0.1. If it does exist, the default cache time is 600s. | |
| | OK Cancel | |

ii. Custom Policy: You can customize the heuristic cache validity period.

| Add Rule | | × |
|-----------------|--|---|
| Туре | File Extension 💌 | |
| Content | | |
| Cache Option | Follow Origin Server 🔹 | |
| Heuristic cache | It takes effect when the origin server responds without Cache- Control or Expires | |
| Cache policy | O Default Configuration O Custom policy | |
| Cache Time | ─ 100 + Seconds ▼ | |
| | OK Cancel | |

Cache Option is Cache





You can customize the cache validity period on the CDN node.

- If force cache is disabled:
 - If the field in the Cache-Control origin server response header is max-age or there is no Cache-Control header, resources will be cached according to the custom CDN node cache rule.
 - If the field in the Cache-Control origin server response header is no-cache , no-store , or private , CDN nodes will not cache resources.

| Add Rule | | × |
|--------------|------------------|---|
| Туре | File Extension 💌 | |
| Content | | |
| Cache Option | Cache 💌 | |
| Cache Time | - 1 + days • | |
| Force cache | Yes 🔿 No | |
| | OK Cancel | |

• If force cache is enabled: The Cache-Control origin server response header will be ignored, and resources will be cached according to the custom CDN node cache rule.

| Add Rule | | × |
|--------------|------------------|---|
| Туре | File Extension 💌 | |
| Content | | |
| Cache Option | Cache 💌 | |
| Cache Time | - 1 + days • | |
| Force cache | ♥ Yes No | |
| | OK Cancel | |

Cache Option is Do not cache

CDN nodes are configured to not to cache resources. For each user request to access a resource, CDN nodes will directly perform origin-pull to get the resource and return it to the user.

| Add Rule | | × |
|--------------|------------------|---|
| Туре | File Extension 💌 | |
| Content | jpg;png;css | |
| Cache Option | No Cache 💌 | |
| | OK Cancel | |

Priority of multiple cache rules

If multiple cache rules are configured, the lower the rule position, **the higher the priority**. You can click **Adjust Priority** to drag and drop cache rules to change their order and adjust the priority.

| Add Rule Adjust priority | | | Enter keywords |
|--------------------------|------------------|-----------------------------------|-------------------------------|
| Tuna | Content | Validity | Operation |
| Туре | content | | operation |
| All Files | All Files | Cache for 30 days | Modify Delete |
| File Extension | php;jsp;asp;aspx | No Cache | Modify Delete |
| File Extension | jpg | Cache for 10 days; Force Cache on | Modify Delete |
| Total items: 3 | | | 10 ▼ / page 🖂 🔺 1 /1 page 🕨 🕅 |

Recommended configuration

- For seldom updated static files, such as images and large files, we recommend you set the cache validity period to 30 days.
- For frequently updated static files, such as .js and .css files, we recommend you set the cache validity period based on the update frequency of your business.
- For dynamic files, such as .php, .jsp, .asp, and .aspx files, you need to set Cache Option to Do not cache.
- For other requests involving direct interaction with the origin server, such as site login (/wp-admin directory for WordPress backend login, for example) or API-based query, you need to set Cache Option to Do not cache; otherwise, an access error may occur.

Configuration limitations

- You can add up to 100 cache rules for a domain name.
- If there are multiple cache rules, the lower the rule position, the higher the priority.
- If **Type** is set to **File Extension**, **File Directory**, or **Full Path**, you can enter up to 100 items and separate them by ";", such as jpg; png (when **Type** is set to **File Extension**).
- If no rules are configured or the request fails to hit any configured rules, the cache validity period will be set on CDN nodes based on the Cache-Control origin server response header. If there is no Cache-Control header, CDN nodes will cache the resource for 600 seconds.
- CDN nodes only cache content requested by GET and HEAD requests. Content requested by POST and OPTIONS requests won't be cached on CDN nodes.

Configuration Samples

Sample 1

The original cache rules specify that CDN doesn't cache .php, .jsp, .asp, and .aspx files and caches other files for 30 days.

| Add Rule Adjust priority | | | Enter keywords Q |
|--------------------------|------------------|-------------------|--------------------------------|
| Туре | Content | Validity | Operation |
| All Files | All Files | Cache for 30 days | Modify Delete |
| File Extension | php;jsp;asp;aspx | No Cache | Modify Delete |
| Total items: 2 | | | 10 ▼ / page 🛛 4 1 / 1 page 🕨 🕅 |

You need to add a rule to cache .jpg and .png files for 10 days while ignoring the Cache-Control origin server response header (i.e., enabling force cache), and change **Cache Option** in the cache rule for **All Files** to **Follow Origin Server**.

1. Click Add Rule, set Type to File Extension, Content to jpg;png, Cache Option to Cache, Cache Validity to 10 days, and Force Cache to Yes, and click OK.

| Add Rule | | |
|--------------|------------------|--|
| Туре | File Extension 💌 | |
| Content | јрд | |
| Cache Option | Cache 💌 | |
| Cache Time | - 10 + days - | |
| | Ves No | |

2. Select the cache rule for All Files, click Modify, change Cache Option to Follow Origin Server, and click OK.



| Modify Rule | | > |
|-----------------|---|----------|
| Туре | All Files 💌 | |
| Content | All Files 💌 | |
| Cache Option | Follow Origin Server 🔹 | |
| Heuristic cache | It takes effect when the origin server responds withou Control or Expires | t Cache- |
| | OK Cancel | |

- 3. After the adjustment, the cache rules are:
 - .jpg and .png files will be cached for 10 days with force cache enabled.
 - .php, .jsp, .asp, and .aspx won't be cached.
 - Other files will be cached for 30 days.

| Add Rule Adjust priority | | | | Enter keywords | Q |
|--------------------------|------------------|-----------------------------------|-------------------|----------------|---|
| Туре | Content | Validity | Operation | | |
| All Files | All Files | Follow Origin Server | Modify Delete | | |
| File Extension | php;jsp;asp;aspx | No Cache | Modify Delete | | |
| File Extension | jpg | Cache for 10 days; Force Cache on | Modify Delete | | |
| Total items: 3 | | | 10 🔻 / page 🛛 🛤 🖪 | 1 / 1 page | |

Below are actual caching results:

- The www.test.com/abc.jpg resource will be cached on the node for 10 days, even though the field in the Cache-Control origin server response header is no-cache, no-store, or private.
- The www.test.com/def.php resource won't be cached to the node.



Sample 2

Suggestions on configuring node cache validity rules for a site built based on WordPress:

- For resources under the domain name /wp-admin directory for backend login, you need to set Cache Option to Do not cache; otherwise, backend login resources will be cached and login errors will occur. If there are any API resources, you also need to set Cache Option to Do not cache for them.
- For .php, .jsp, .asp, and .aspx dynamic files, you need to set **Cache Option** to **Do not cache** (default cache rule of CDN).
- As .html, .js, and .css files are updated frequently, you need to set the cache validity period based on the update frequency. We recommend you set the cache validity period to 7 days and disable force cache.
- Other files are cached for 30 days (default cache rule of CDN).

Add cache rules while retaining the default CDN cache rules:

1. Click Add Rule, set Type to File Directory, Content to /wp-admin , and Cache Option to Do not cache, and click OK.

| Add Rule | | × |
|--------------|-------------|---|
| Туре | Full Path 💌 | |
| Content | /wp-admin | |
| Cache Option | No Cache 💌 | |

2. Click Add Rule, set Type to File Extension, Content to html; js; css , Cache Option to Cache, Cache Validity to 7 days, and Force Cache to No, and click OK.

| Add Rule | | | | > |
|--------------|----------------|--------|---|---|
| Туре | File Extension | • | | |
| Content | html;js;css | | | |
| Cache Option | Cache | • | | |
| Cache Time | - 7 + | days | ~ | |
| Force cache | 🗌 Yes (No | | | |
| | ОК | Cancel | | |

3. As the lower the rule position, the higher the priority, click **Adjust Priority** and drag and drop the rule of not caching files in the /wp-admin directory to the bottom to grant it the highest priority.

| Туре | Content | Validity | |
|----------------|------------------|-------------------|--|
| All Files | All Files | Cache for 30 days | |
| File Extension | php;jsp;asp;aspx | No Cache | |
| Full Path | /wp-admin | No Cache | |
| File Extension | html;js;css | Cache for 7 days | |

4. After the adjustment, the cache rules are:

- All resources under the /wp-admin directory will not be cached.
- .html, .js, and .css files will be cached for 7 days.
- .php, .jsp, .asp, and .aspx won't be cached.

• Other files will be cached for 30 days.

| Add Rule Adjust priority | | | Enter keywords Q |
|--------------------------|------------------|-------------------|--------------------------------|
| Туре | Content | Validity | Operation |
| All Files | All Files | Cache for 30 days | Modify Delete |
| File Extension | php;jsp;asp;aspx | No Cache | Modify Delete |
| File Extension | html;js;css | Cache for 7 days | Modify Delete |
| Full Path | /wp-admin | No Cache | Modify Delete |
| Total items: 4 | | | 10 💌 / page 🕅 🖪 1 / 1 page 🕨 🕅 |

FAQs

- If the file changes on the origin server, will the cache on CDN cache nodes be updated in real time?
- How do I tell whether user access has hit the CDN cache?

Status Code Cache Configuration

Last updated : 2021-01-08 15:33:27

Configuration Overview

Normally, when a CDN node successfully pulls a requested resource from the origin server (with a 2XX status code returned), the node will process the resource based on the rules in the node cache validity configuration. If the origin server is unable to process the non-2XX requests quickly, and you do not want all requests to be passed through to the origin server, you can configure the status code cache validity period. In this case, the CDN node will directly respond to non-2XX requests, helping reduce pressure on the origin server. Currently supported status codes are as follows:

- 4XX: 400, 401, 403, 404, 405, 407, 414
- 5XX: 500, 501, 502, 503, 504, 509, 514

A Note:

- For now, some platforms only supports 404 and 403 codes. We will complete server upgrade as soon as possible.
- Currently, only the status codes 404 and 403 are supported in regions outside the Chinese mainland. If the acceleration region of a domain name is "Global", then the status code cache rules except for 404 and 403 will only take effect in the Chinese mainland.

Configuration Guide

Viewing configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and switch to the **Cache Configuration** tab to find the **Status Code Cache** section.

There is a default rule, which will cache 404 requests for 10 seconds.

| itatus code cache | | | | |
|--|----------------|-----------------|--|--|
| Set status code cache time.What's status code caching? 🛂 | | | | |
| New status code cache | | | | |
| Status Code | Cache Validity | Operation | | |
| 404 | 10s | Modify Delete | | |

Adding rules

You can click **Add Rule** to add status code cache rules as needed.

| New status code c | ache | × |
|-------------------|----------------|-----------|
| Status Code | Cache Validity | Operation |
| 403 | ▼ days ▼ | |
| | OK Cancel | |

Configuration limitations

- Each status code can only have one unique rule.
- The cache time 0 means not to cache content.

HTTP Header Cache Configuration

Last updated : 2021-04-20 14:04:47

Configuration Overview

Besides resources, Tencent Cloud CDN will also cache the following headers from the origin server and return them to users by default:

- Access-Control-Allow-Origin
- Timing-Allow-Origin
- Content-Disposition
- Accept-Ranges

If your origin server has special headers that need to be cached and returned to users by CDN, you can enable header cache.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Cache Configuration** tab to find the **HTTP Header Cache Configuration** section. The configuration is enabled by default, and you can disable it as needed.

HTTP Header Cache

If it's on, all header information passed through from the origin is cached. And if it's off, only part of the key header information is cached. What's HTTP header cache? Z Due to the node cache, if it needs to take effect immediately after turned on/off, please refresh the cache.



Access URL Rewrite Configuration

Last updated : 2022-08-29 18:33:05

Configuration Overview

If you need to modify the actual access URL to the URL that matches the origin server, you can use the access URL rewrite configuration in Tencent Cloud CDN.

You can customize the access URL rewrite configuration to redirect 302 URLs to the specified URL.

Configuration Guide

Viewing configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and open the **Cache Configuration** tab to find the **Access URL Rewrite Configuration** section.

Access URL Rewrite Configuration is disabled by default.

| Access URL Rewrite Configuration | | | | | | |
|--|--|-------------|--|--|--|--|
| Multiple access URL rewrite rules can be configured. What's access URL rewrite configuration 🖆 | | | | | | |
| On/Off O The configuration below can | On/Off OT The configuration below can be modified when it is disabled, but the configuration will not be deployed officially until it is enabled | | | | | |
| Add Rule Adjust priority | Add Rule Adjust priority | | | | | |
| Current URL | Target Host | Target Path | | | | |
| No data yet | | | | | | |
| Total items: 0 | | | | | | |

Adding rules

You can click Add Rewrite Rule to add rules as needed.

| Add Rule | | × |
|---------------|---|---|
| Matching Rule | Full-path matching | |
| | If it's not selected, Prefix Matching is used by default | |
| Current URL | | |
| | Starting with "/"; supporting full-path matching (e.g., /test/a.jpg) and wildcard (*) matching (e.g., /test/*/*.jpg) | |
| Target Host | http://www.test.com | |
| | "http://" or "https://" is required | _ |
| Target Path | | |
| | Starting with "/" (e.g., /newtest/b.jpg); the wildcard "*" can be caught with "\$n" (e.g., if n=1,2,3 then /newtest/\$1/\$2.jpg) | |
| | Save Cancel | |

Configuration limitations

- Each domain name can have up to 100 rewrite rules.
- You can adjust the priority for multiple rules. Rules at the bottom of the list have higher priority.
- Current URL: starting with /; supporting full-path matching (e.g., /test/a.jpg) and wildcard () matching (e.g., /test/.jpg). If you want to specify a file directory, you cannot end the path with / (e.g., /test).
- Target Host: it is the current domain name (starting with http://) by default. It can be modified to other domain names starting with http://) by default. It can be modified to other domain names starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://) by default. It can be modified to other domain name (starting with http://<
- Target Path: starting with / (e.g., /newtest/b.jpg); the wildcard * can be captured with \$n (e.g., if n=1,2,3... then /newtest/\$1/\$2.jpg). If you want to specify a file directory, you cannot end the path with / (e.g., /test).
- Up to 5 * and 10 \$n are supported.
- The content can contain up to 1,024 characters and Chinese characters are not supported.

Configuration Samples



If the Access URL Rewrite Configuration of the acceleration domain name www.test.com is as follows:

| Access URL Rewrite Configuration | | | | | |
|--|---|------------------------------|--|--|--|
| Multiple access URL rewrite rules can be configured. What's access URL rewrite configuration 🖾 | | | | | |
| On/Off The configuration below can be modified wh | nen it is disabled, but the configuration will not be deployed of | ficially until it is enabled | | | |
| Add Rule Adjust priority | | | | | |
| Current URL | Target Host | Target Path | | | |
| /test/a.jpg Full-path matching | http://www.test.com | /newtest/b.jpg | | | |
| /test/*.png Full-path matching | http://www.newtest.com | /newtest/\$1.png | | | |
| Total items: 2 | | | | | |

Then the actual access will be as follows:

- A client requests www.test.com/test/a.jpg and the CDN node returns www.test.com/newtest/b.jpg .
- A client requests www.test.com/test/a.png and the CDN node returns www.newtest.com/newtest/a.png .

Browser Cache Validity Configuration

Last updated : 2021-04-08 14:38:02

Feature Overview

By configuring the browser cache validity, you can customize client browser cache policies to reduce origin-pull rate.

i Note:

When a request comes, if the requested resource is cached on the browser, it will be returned directly. If no, the request will be forwarded to CDN cache nodes. If the resource still cannot be found on the cache node, the request will be forwarded to the origin server.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page. Open the **Cache Configuration** tab to find the **Browser Cache Validity Configuration** section.

| Browser Cache Validity Configuration | | | | |
|---|-----------|----------------------|-----------|--|
| Browser cache validity configuration is a set of browser caching policies for user files, which can lower the origin-pull rate.How to set the browser cache validity configuration? 🗹 | | | | |
| Add Rule Adjust Priority | | | | |
| - | Content | Cache Behavior | 0 | |
| Туре | Content | Cache Benavior | Operation | |
| All Files | All Files | Follow Origin Server | Modify | |

Adding rules

Click **Add Rule** to add browser cache validity rules for specified file type, file directory, file path, and homepage.

| Specified File Type | Specified File Type | |
|---------------------|----------------------|--|
| Content | jpg;png;css | |
| Cache Option | Follow Origin Server | |
| | OK Cancel | |

- Follow origin server: follow the Cache-Control header of the origin server. If the origin server does not have a CC header or its CC header is no-cache/no-store/private, the browser will not cache resources.
- Cache: if the CC header of the origin server is not no-cache/no-store/private , the browser cache validity rules will be applied; otherwise, the browser will not cache resources.
- No cache: no resource is cached in a browser.

Configuration limitations

- Each domain name can have up to 20 rules. Only one "All Files" and "Homepage" rule can be added.
- You can adjust the priority for multiple rules. Rules at the bottom of the list have higher priority.
- In each rule of specified file type, file directory, and file path, up to 50 groups of content can be entered. Please use ";" to separate different content, e.g., Specified File Type: jpg;png.
- Chinese characters are not supported.

Default policies

If no rule is configured or matches requests, the default policies will be applied:

- When a user makes a request for a certain business resource, if the HTTP response header of the origin server contains the field Cache-Control , the Cache-Control will be followed.
- If the HTTP response header of the origin server does not contain the field Cache-Control, then the resource cache validity on the browser will be 600 seconds.

When there are node cache validity rules configured (configuration guide: Node Cache Validity Configuration (New)) or matched:

• If the HTTP response header of the origin server does not contain the field Cache-Control, then the browser will not cache resources.

• If the HTTP response header of the origin server contains the field Cache-Control , then the browser cache will follow Cache-Control .

Cache Configuration FAQs

Last updated : 2021-11-15 16:27:09

What's node cache validity configuration?

Node cache validity configuration refers to a set of validity rules the CDN cache nodes should follow when caching your business contents.

All resources cached on CDN nodes have validity. For unexpired resources, when a request reaches the node, the node will directly return the requested resources to the user, so as to speed up the resource acquisition. For expired resources, the node will forward the user request to the origin server. If the resources have been updated on the origin server, they will be reacquired, cached to the node, and then returned to the user; otherwise, only the resource validity will be updated on the node. A proper cache validity can effectively improve the resource hit rate and lower the origin-pull rate, reducing bandwidth usage.

How do I control the file cache validity in a browser?

You can configure the browser cache validity on the console. For more information, please see Browser Cache Validity Configuration.

I use my own server as the origin server of CDN. Can I configure CDN to not cache a specific type of files? Can I set the cache validity to "0" to disable caching?

You can configure different cache validity periods for different types of directories and files. If the cache validity is configured to "0", the CDN node will not cache the resource, in which case the CDN node needs to pull related resources from the origin server every time the users send access requests to the node. For more information on cache configurations, please see Node Cache Validity Configuration (Legacy).

What cache validity configuration does Tencent Cloud support?

Tencent Cloud CDN supports configuring cache actions and cache validity rules for various file types, and you can also adjust the priority of custom cache rules. Proper cache validity rules can effectively improve the resource hit rate and lower the origin-pull rate, reducing bandwidth usage. For more information, please see Cache Configuration.

What is the default cache configuration of CDN?

When adding an acceleration domain name, default node cache validity rules are added based on different acceleration service types and can be modified as needed.

- If static acceleration is selected, the general dynamic files (such as PHP, JSP, ASP, and ASPX files) will not be cached by default, and other files will be set to follow the origin server by default.
- If download or streaming VOD acceleration is selected, the default cache validity of all files will be 30 days.

What are cache matching rules?

When multiple cache rules are set, the ones at the bottom of the list have higher priority. For example, if a domain name is configured as follows:

```
All files - 30 days
.php .jsp .aspx - 0 seconds
.jpg .png .gif - 300 seconds
/test/*.jpg - 400 seconds
/test/abc.jpg - 200 seconds
```

If the domain name is www.test.com , and the resource is www.test.com/test/abc.jpg , the matching
rule will be as follows:

- 1. Match with the first rule. It is hit, so the cache validity is 30 days.
- 2. Match with the second rule. It is not hit.
- 3. Match with the third rule. It is hit, so the cache validity is 300 seconds.
- 4. Match with the fourth rule. It is hit, so the cache validity is 400 seconds.
- 5. Match with the fifth rule. It is hit, so the cache validity is 200 seconds.

The final cache validity is subject to the last matching result, so it will be 200 seconds.

Origin-pull Configuration Range GETs Configuration

Last updated : 2023-03-10 14:25:21

If most of your files are large static files, enabling Range GETs can help increase the file response speed during originpull and improve the large file delivery efficiency.

Description

Range GETs refers to origin-pull based on range requests. Range is one of the HTTP request headers, which is used to get files in the specified range. You can use a range request to request only partial file content from the server. For example, if a request carries the HTTP header range: bytes=0-999 , the first 1,000 bytes of the file will be returned to the user.

In CDN, after Range GETs is enabled, origin-pull requests will carry the Range header by default. If the partial file requested by a user is not cached on the node or its cache has expired, CDN will perform Range GETs to pull and cache the requested partial file to the node and return it to the user. After Range GETs is disabled, if the user request doesn't carry the Range header, CDN will still pull the entire file during origin-pull.

For large files such as APK, audio, and video files, you can use range requests to effectively improve the delivery efficiency of large files, shorten the response time, and reduce the pressure on the origin.

Notes

- 1. Before you enable Range GETs, make sure that the origin server supports range requests. Otherwise, origin-pull may fail.
- 2. After you enable Range GETs, resources are cached in shards on the nodes. These shards have the same cache validity period and follow the cache validity rule that you defined.
- 3. Origin-pull may fail if Range GETs is enabled for small static files, or if you enable Range GETs while using a COS origin server and data processing methods such as image processing. To ensure successful origin-pull in these cases, we recommend that you do not enable Range GETs.
- 4. We recommend that you enable Range GETs to cache large static files in the following cases: The origin server supports range requests, or you use a COS origin server and do not use any data processing methods such as image processing.

StreamLink Configuration

Configuration in domain management

- 1. Log in to the CDN console.
- 2. Click **Domain Management** on the left sidebar to enter the domain name management list.
- 3. Select the target domain name and click **Manage** to enter the domain name configuration page.
- 4. Click the Origin-pull Configuration tab to view the Range GETs configuration items.

| 5 | | the response time (the origin server must support Range r | equests). What's Range GETs 🔽 | |
|------------------------|--|---|-------------------------------|------------|
| | it's enabled for small static files, or you enable it while us | sing a COS origin server and data processing methods | | |
| Add Rule Adjust priori | ty | | | |
| Туре | Content | Range GETs | Operation | |
| All Files | All Files | Disable | Modify | |
| Total items: 1 | | | 10 🔻 / page 🔣 🖣 1 | / 1 page 🕨 |

5. In Range GETs configuration, Range GETs is disabled for all files by default. You can also add multiple custom rules for files as needed. Range GETs rules can be matched by file extension, file directory, and full path.

| Item | Description |
|---------|--|
| | You can select All Files, File Extension, File Directory, or Full Path: |
| Туре | All Files: This Range GETs rule applies to all files. It is the default rule and cannot be deleted. |
| | File Extension: This Range GETs rule applies to the specified file extensions. |
| | File Directory: This Range GETs rule applies to the specified file directories. |
| | Full Path: This Range GETs rule applies to the specified file paths. |
| | Enter the content based on the selected file type: |
| | If Type is File Extension, you can enter one or multiple file extensions separated by ";". |
| Content | If Type is File Directory , you can enter one or multiple file directories separated by ";", |
| Content | and the entered content cannot end with "/", such as /test;/a/b/c . |
| | If Type is Full Path , you can enter one or multiple full file paths separated by ";", such as |
| | /index.html;/test/*.jpg . The file path supports the * wildcard. |



| Item | Description |
|------------|--|
| Range GETs | Range GETs can be enabled or disabled. Enable: If Range GETs is enabled, range requests are used for origin-pull requests. After Range GETs is enabled, if the user request does not carry the Range header and the requested files are larger than 4 MB in size, the CDN node splits the origin-pull request into several sub-requests for origin-pull based on a shard size of 1 MB. If the requested files are smaller than 4 MB in size, the CDN node pulls complete files from the origin server. If the user request carries the Range header, the CDN node uses the Range header for origin-pull. Disable: If Range GETs is disabled, range requests are not used for origin-pull requests. |

Recommended Configuration

If your files are larger than 4 MB in size, we recommend you enable Range GETs for such files. If only part of your files are large ones, we recommend you enable Range GETs for them through match by file type, file directory, or full path and disable Range GETs for other files.

Configuration limitations

You can configure up to 20 Range GETs rules. The lower the rule, the higher the priority. When a user requests a file, the file will be matched with rules in sequence by priority, and the rule with the highest priority will be executed preferentially after a successful match.

Configuration Samples

Sample 1

If Range GETs needs to be enabled for all files, configure Range GETs for the domain name

cloud.tencent.com as follows:

| Enable Range GETs to reduce the consumption in file delivery during origin-pull and shorten the response time (the origin server must support Range requests). What's Range GETs 🗳 Note that the origin-pull may fail if it's enabled for small static files, or you enable it while using a COS origin server and data processing methods | | | | |
|---|-----------|------------|-------------------------------|--|
| Add Rule Adjust priori | ty | | | |
| Туре | Content | Range GETs | Operation | |
| All Files | All Files | Disable | Modify | |
| Total items: 1 | | | 10 ▼ / page H 4 1 /1 page > H | |

User A requests for the resource http://cloud.tencent.com/test.apk. After the node receives the request and finds that the cached file test.apk has already expired, the node initiates an origin-pull request. Since Range GETs is enabled for all files in the current rule, the node uses a range request to obtain and cache the



resource in shards. If user B also makes a range request for the same file to the same node and the shards that are stored on the node match the specified byte segments in the range request, the resource is directly returned to user B even though the shards are not completely obtained.

Sample 2

If Range GETs needs to be enabled for only part of your files, configure Range GETs for the domain name

cloud.tencent.com as follows:

| Range GETs Configuration | | | |
|-------------------------------|-----------|---|--------------------------------|
| | | n the response time (the origin server must support Range i sing a COS origin server and data processing methods | requests). What's Range GETs 🔽 |
| Add Rule Adjust priority Type | Content | Range GETs | Operation |
| All Files | All Files | Disable | Modify |
| File Extension | apk | Disable | Modify Delete |
| Total items: 2 | | | 10 ▼ / page 🛛 🖌 1 / 1 page 🕨 |

When user A makes a request for the http://cloud.tencent.com/test.apk resource, as the bottom rule has a higher priority than the top rule, Range GETs will be used for the request if the node resource is not hit or the cached resource has expired. If user B makes a request for the http://cloud.tencent.com/test.jpg resource, as it only matches the rule for all files, Range GETs won't be used when origin-pull is performed for the request.

Follow 301/302 Configuration

Last updated : 2022-04-01 10:14:01

Configuration

Tencent Cloud CDN does not cache 301/302 status codes by default. When an origin server returns a 301/302 request, the CDN node will return the response to the client by default, and the client will be redirected to the corresponding resource for access.

When the follow 301/302 redirect configuration is enabled, the CDN node will be redirected when receiving a 301/302 redirect request during origin-pull until it gets the required resource (up to 3 follows are supported). It will then return the actual resource to the client, which does not need to be redirected.

Configuration Guide

Log in to the CDN Console, select **Domain Management** on the left sidebar, and click **Manage** to the right of the domain name to access its configuration page. Under the **Origin Configuration** tab, find **Follow 301/302 Configuration**, which is disabled by default:

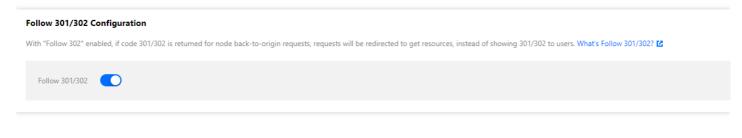
With "Follow 302" enabled, if code 301/302 is returned for node back-to-origin requests, requests will be redirected to get resources, instead of showing 301/302 to users. What's Follow 301/302?

Follow 301/302

Follow 301/302 Configuration

Configuration Sample

Suppose the follow 301/302 redirect configuration for the domain name cloud.tencent.com is as follows:



User A requests a resource http://cloud.tencent.com/1.jpg . If the cache is not hit on the node, the node

🔗 Tencent Cloud

will request the resource from the origin server. If the HTTP response status code returned by the origin server is 302 and the redirect address is http://cloud.tencent.com/1.jpg, then:

- 1. After follow 301/302 redirect is enabled, the node will directly initiate a request to the redirect address when it receives the HTTP response with the 301/302 status code.
- 2. The resource will be obtained, cached to the node, and returned to the user.
- 3. At this time, if user B also sends a request for http://cloud.tencent.com/1.jpg, the cache will be hit on the node and the resource will be returned to the user.
- 4. After follow 301/302 redirect is enabled, up to 3 follows are allowed. If this limit is exceeded, the 301/302 status code will be returned to the user.

Suppose the follow 301/302 redirect configuration for the domain name cloud.tencent.com is as follows:

Follow 301/302 Configuration With "Follow 302" enabled, if code 301/302 is returned for node back-to-origin requests, requests will be redirected to get resources, instead of showing 301/302 to users. What's Follow 301/302?

User A requests a resource http://cloud.tencent.com/1.jpg. If the cache is not hit on the node, the node will request the resource from the origin server. If the HTTP response status code returned by the origin server is 301/302 and the redirect address is http://xxx.tencent.com/1.jpg, then:

- 1. The node will directly return the HTTP response to the user.
- 2. When the user initiates a request for http://xxx.tencent.com/1.jpg, no acceleration will take effect if the domain name is not connected to CDN.
- 3. At this time, if user B also sends a request for http://cloud.tencent.com/1.jpg, the process above will be repeated.

Origin-pull timeout configuration

Last updated : 2020-04-27 14:28:23

Configuration Scenario

When Tencent Cloud CDN forwards a request to the origin server, the default timeout period for TCP connection is 5 seconds, and the default timeout period for data loading during origin-pull is 10 seconds. If the origin-pull duration exceeds the aforementioned time limits, failures will often occur.

You can adjust the timeout periods for origin-pull TCP connection and data loading according to your origin server data processing conditions and network environment so as to ensure normal origin-pull.

Configuration Guide

Viewing the configuration

Log in to the CDN Console, select **Domain Management** on the left sidebar, and click the domain name to enter its configuration page. You will find the origin-pull timeout configuration on the **Origin Configuration** tab. By default:

- The TCP connection timeout period is 5 seconds.
- The origin-pull loading timeout period is 10 seconds.

Origin pull timeout configuration According to the origin site status and service characteristics, customize the TCP connection timeout and load time for origin-pull requests.What is the origin-pull timeout configuration?

Modifying the configuration

You can click Edit on the right to modify the corresponding timeout period as needed:



• The TCP connection timeout period can be set to 5–60 seconds.

| Modify origin-pull timeout time | |
|------------------------------------|---|
| TCP connection time (unit: second) | 5 TCP connection timeout time can be set to a positive int eger between 5 and 60 OK Cancel |

• The origin-pull loading timeout period can be set to 5-60 seconds.

| Modify origin-pull timeout time X | |
|--------------------------------------|---|
| Origin-pull load time (unit: second) | 10 Origin-pull load time can be set to a positive integer be tween 5 and 60 |
| | OK Cancel |

If your acceleration domain name is configured for global acceleration, the configured origin-pull timeout period will take effect globally. This configuration does not distinguish between requests from Mainland China and from outside Mainland China.

Request Header Configuration

Last updated : 2023-03-23 11:21:38

Configuration Overview

Tencent Cloud CDN supports adding origin-pull request headers:

- Carries the real client IP to the origin server through the X-Forwarded-For header.
- Carries the real client port to the origin server for analysis through the X-Forward-Port header.
- Adds custom headers.

You can also set and delete custom origin-pull request headers.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and then click **Manage** on the right of a domain name to enter its configuration page. Select the **Origin-pull Configuration** tab to find the **Origin-pull Request Header Configuration** section. The feature is disabled and not pre-configured by default.

| Origin-pull Request He | eader Configuration | | | |
|---|--|--|--------------|-----------|
| Adding the header to carry the client IP, port, or to identify CDN service for origin-pull.What's request header configuration? 🗹 Request Header | | | | |
| The configuration below car | n be modified when it is disabled, but the configura | ation will not be deployed officially until it is enable | led. | |
| Add Origin-pull Header | Rule Adjust Priority | | | |
| Rule Type | Rule Content | Header Parameter | Header Value | Operation |
| | | No data yet | | |
| | | | | |

Operation

Operation

Description



| Operation | Description |
|-----------|--|
| Set | Sets the value of a specified request header parameter. If the target header does not exist, a new one will be added. If the origin-pull request header parameter already exists, the new request header will overwrite the old one as duplicate headers are not allowed. |
| Add | Adds a specified origin-pull request header parameter. If the target header already exists, the new request header will overwrite the old one as duplicate headers are not allowed. |
| Delete | Deletes a specified request header parameter. |

Note:

- Rules are executed from bottom to top, and the priority is meaningful for the same type of operations only, that is, the priorities of multiple "Set", "Add", and "Delete" rules are independent.
- If an origin-pull request header parameter is configured with multiple rules of different operations, the operations will be conducted in the order of "Add", "Delete", and "Set". For example, if the header X-CDN is configured with rules of "Add", "Delete", and "Set", it will be added, then deleted, and finally set.

| Header Parameter | Description |
|------------------|--|
| X-Forwarded-For | The header used to carry the real client IP. Its value defaults to <pre>\$client_ip</pre> variable, which cannot be modified. |
| X-Forward-Port | The header used to carry the real client port. Its value defaults to <pre>\$remote_port</pre> variable, which cannot be modified. |
| Custom header | Key: 1 to 100 characters, including digits (0 - 9), lowercase letters (a - z), uppercase letters (A - Z), and hyphens (-). Value: 1 to 1000 characters. Chinese characters are not supported. Some standard headers cannot be set, added, or deleted by the user. For the detailed list, please see Notes. |

Header parameter

Note:

• Up to 10 origin-pull request header rules can be configured.

• Supported rule types: all content, specified file type, specified folder, and specified file. Regex match is currently not supported.

Configuration Samples

The origin-pull request header configuration of the acceleration domain name cloud.tencent.com is as follows:

| Origin-pull Request Header Configuration | | | | | |
|--|--|---|--------------|-----------------|--|
| Adding the header to carry the client IP, port, or to identify CDN service for origin-pull. What's request header configuration? 🗹 | | | | | |
| equest Header | | | | | |
| e configuration below can b | be modified when it is disabled, but the configu | ration will not be deployed officially until it is enab | led. | | |
| | | | | | |
| Add Origin-pull Header R | Adjust Priority | | | | |
| Rule Type | Rule Content | Header Parameter | Header Value | Operation | |
| All Content | × | X-Forward-For | \$client_ip | Modify Delete | |
| All Content | | | | | |
| File ext | mp4 | x-cdn | TencentCloud | Modify Delete | |

If the accessed resource is http://cloud.tencent.com/test/test.mp4 , then:

- 1. It hits the * rule, so the header X-Forwarded-For:\$client_ip will be added, and \$client_ip will be replaced with the real client IP during origin-pull.
- 2. It hits both the .mp4 file type tule and /test path rule. The two rules are of the same type, "Add". As the lower rule has the higher priority, the header x-cdn:Tencent is added.

Notes

In origin-pull request header rules, the following standard headers currently cannot be set, added, or deleted:

| www- authenticate | authorization | proxy-authenticate | proxy- authorization |
|----------------------|---------------|--------------------|-------------------------|
| age | cache-control | clear-site-data | expires |
| pragma | warning | accept-ch | accept-ch- lifetime |
| early-data | content-dpr | dpr | device- memory |



| www- authenticate | authorization | proxy-authenticate | proxy- authorization |
|---|--------------------------------------|--------------------------------|---|
| save-data | viewport-width | width | last-modified |
| etag | if-match | if-none-match | if-modified- since |
| if- unmodified- since | vary | connection | keep-alive |
| accept | accept-charset | expect | max- forwards |
| access- control- allow-origin | access-control-max- age | access-control-allow-headers | access- control- allow- methods |
| access- control- expose- headers | access-control-allow- credentials | access-control-request-headers | access- control- request- method |
| origin | timing-allow-origin | dnt | tk |
| content- disposition | content-length | content-type | content- encoding |
| content- language | content-location | forwarded | x-forwarded- host |
| x-forwarded- proto | via | from | host |
| referer- policy | allow | server | accept- ranges |
| range | if-range | content-range | cross-origin- embedder- policy |
| cross-origin- opener- policy | cross-origin-resource- policy | content-security-policy | content- security- policy- report-only |



| www- authenticate | authorization | proxy-authenticate | proxy- authorization |
|--------------------------------|------------------------------|---------------------------|---|
| expect-ct | feature-policy | strict-transport-security | upgrade- insecure- requests |
| x-content- type-options | x-download-options | x-frame-options(xfo) | x-permitted- cross- domain- policies |
| x-powered- by | x-xss-protection | public-key-pins | public-key- pins-report- only |
| sec-fetch- site | sec-fetch-mode | sec-fetch-user | sec-fetch- dest |
| last-event-id | nel | ping-from | ping-to |
| report-to | transfer-encoding | te | trailer |
| sec- websocket- key | sec-websocket- extensions | sec-websocket-accept | sec- websocket- protocol |
| sec- websocket- version | accept-push-policy | accept-signature | alt-svc |
| date | large-allocation | link | push-policy |
| retry-after | signature | signed-headers | server- timing |
| service- worker- allowed | sourcemap | upgrade | x-dns- prefetch- control |
| x-firefox- spdy | x-pingback | x-requested-with | x-robots-tag |
| x-ua- compatible | max-age | | |

Origin URL Rewrite Configuration

Last updated : 2022-02-26 13:48:44

Overview

If you need to modify the origin-pull request URL to the URL that matches the origin server, you can use the origin URL rewrite configuration in Tencent Cloud CDN.

Note:

This feature is not available for ECDN domain name.

Directions

Viewing the configuration

Log in to the CDN Console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and switch to the **Origin-pull Configuration** tab to find the **Origin URL Rewrite Configuration** section.

| fultiala sustana avisia UDI veuvita sulas can ba s | | | | | |
|--|--|--------------------|-----------|--|--|
| iunipie custom origin orce rewrite rules can be o | Multiple custom origin URL rewrite rules can be configured. What's origin URL rewrite? 🗳 | | | | |
| Add Rule Adjust Priority | | | | | |
| Current Origin URL | Target Origin Domain | Target Origin Path | Operation | | |
| No data yet | | | | | |

Adding rules



You can click Add Rule to add rewrite rules as needed.

| Starting with "/"; supporting full-path matching (e.g., /test/a.jpg) and wildcard (*) matching (e.g., /test/*/*.jpg). |
|---|
| www.test.com |
| Please enter the target origin domain (excluding "http://" or "https://"). |
| |
| Starting with "/" (e.g., /newtest/b.jpg); the wildcard "*" can be caught with "\$n" (e.g., if n=1,2,3 then /newtest/\$1/\$2.jpg). |
| |

Configuration limitations

- Each domain name can have up to 100 rewrite rules.
- You can adjust the priority for multiple rules. Rules at the bottom of the list have higher priority.
- Current Origin URL: starting with "/"; prefix matching is used by default; supporting full-path matching (e.g., /test/a.jpg) and wildcard () matching (e.g., /test//*.jpg). If you want to specify a file directory, you cannot end the path with "/" (e.g., /test).
- Target Origin Domain: the current domain name is used by default (excluding "http://" and "https://"). You can modify it as needed.
- Target Origin Path: starting with "/" (e.g., /newtest/b.jpg); the wildcard "*" can be captured with "\$n" (e.g., if n=1,2,3... then /newtest/\$1/\$2.jpg). If you want to specify a file directory, you cannot end the path with "/" (e.g., /test).
- Up to 5 "*" and 10 "\$n" are supported.
- The target origin domain can contain up to 250 characters. Other content can contain up to 1,024 characters.

Configuration Samples:

Suppose the Origin URL Rewrite Configuration of the acceleration domain name www.test.com is as follows:

The origin-pull will be rewritten as follows:

• In case www.test.com/images/1.jpg is requested, the request hits the first, second and third rule. As rules are executed from the bottom to top, the URL will be re-written to www.test.com/index.html.

• In case www.test.com/images is requested and the request hits the second rule, the URL will be rewritten to www.test.com/goodboy.html.

Origin-pull SNI

Last updated : 2022-08-11 19:26:31

Overview

If an origin server IP is bound with multiple domain names, you can set the origin-pull SNI to specify a domain name for CDN nodes to access the origin server via HTTPS.

Note:

- Only domain names accelerated in the Chinese mainland are supported.
- This feature may be unavailable in some platforms. We will complete server upgrade as soon as possible.

Directions

Viewing the configuration

Origin-pull SNI is disabled by default. You can enable it for your needs.

Editing the configuration

After it's enabled, you need to specify a domain name and the configuration will then take effect. When the configuration switch is off, the configuration will not be deployed.

Merging Requests

Last updated : 2022-12-26 17:49:56

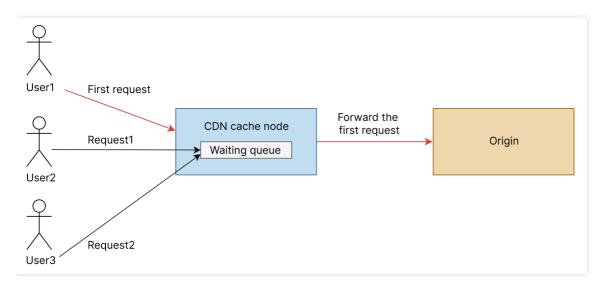
Origin-pull merging can help increase the cache hit rate, so as to lower the load pressure during peak hours like big online promotion events.

Description

When multiple users request for the same resource that is not cached on the cache node, all requests are forward to the origin, leading to soaring bandwidth and connections. A slow or failed origin response that could affect access experience may even occur if the origin server reaches the performance limit.

When origin-pull merge is enabled, only one request is forwarded to the origin to retrieve the requested resource. Other similar requests are hold till the resource is ready on the cache node.

The following figure shows how this feature works. Three requests are sent to the same cache node requesting for the same resource. The first request is forwarded to the origin. The resource is then returned to the requester and cached on the cache node. Now, other awaiting requests can get the resource from the cache.



Limits

- 1. It only supports response status code 200, 206 and 304.
- 2. Unsupported caching headers: "cache-control: no-cache", "no-store", "private" and "pragma: no-cache".
- 3. Unsupported data transfer methods: Chunked transfer encoding.
- 4. Supported HTTP request methods: GET.

- 5. "content-length" and "transfer-encoding" must be present in the HTTP response header.
- 6. Unsupported compression methods: Gzip and Brotli.

Configuration

- 1. Log in to the CDN console.
- 2. Click Domain Management on the left sidebar to enter the domain name management list.
- 3. Select the target domain name and click **Manage** to enter the domain name configuration page.
- 4. Click the Origin-pull Configuration tab and find Origin-pull merge.
- 5. Origin-pull merge is disabled by default. You can enable it as needed.

Configuration Sample

The following configuration sample shows how to enable origin-pull merge.

HTTPS Configuration HTTPS Configuration

Last updated : 2020-05-22 11:04:36

If you need to configure an existing certificate for your domain name, please see below. If the certificate you configure is from Tencent Cloud SSL Certificates Service, you can skip this step.

Uploading Certificate

Generally, CAs provide the following types of certificates, and Nginx is used by CDN.

Enter the Nginx folder, use a text editor to open ".crt" (certificate) and ".key" (private key) files, and view the content of the certificate and private key in PEM format.

Certificate

Common certificate extensions include ".pem", ".crt", and ".cer". Open the certificate file in a text editor and you can see content similar to the one shown below.

A ".pem" certificate begins with "-----BEGIN CERTIFICATE-----" and ends with "-----END CERTIFICATE-----". Every line in between contains 64 characters, while the last line may have less than 64 characters:



----BEGIN CERTIFICATE-----

| MIIE+TCCA+GgAwIBAgIQU306HIX4KsioTW1s2A2krTANBgkqhkiG9w0BAQUFADCB |
|--|
| tTELMAkGA1UEBhMCVVMxFzAVBgNVBAoTD1Z1cm1TaWduLCBJbmMuMR8wHQYDVQQL |
| ExZWZXJpU21nbiBUcnVzdCB0ZXR3b3JrMTsw0QYDVQQLEzJUZXJtcyBvZiB1c2Ug |
| YXQgaHR@cHM6Ly93d3cudmVyaXNpZ24uY29tL3JwYSoAYykw0TEvMC0GA1UEAxMm |
| VmVyaVNpZ24gQ2xhc3MgMyBTZWN1cmUgU2VydmVyIENBIC0gRzIwHhcNMTAxMDA4 |
| MDAwMDAwWhcNMTMxMDA3MjM10TU5WjBqMQswCQYDVQQGEwJVUzETMBEGA1UECBMK |
| V2FzaG1uZ3RvbjEQMA4GA1UEBxQHU2VhdHRsZTEYMBYGA1UEChQPQW1hem9uLmNv |
| bSBJbmMuMRowGAYDVQQDFBFpYW0uYW1hem9uYXdzLmNvbTCBnzANBgkqhkiG9w0B |
| AQEFAAOBjQAwgYkCgYEA3Xb0EGea2dB8QGEUwLcEpwvGawEkUdLZmGL1rQJZdeeN |
| 3vaF+ZTm8Qw5Adk2Gr/RwYXtpx04xvQXmNm+9YmksHmCZdruCrW1eN/P9wBfqMMZ |
| X964CjVov3NrF5AuxU8jgtw0yu//C3hWn0uIVGdg76626gg0oJSaj48R2n0MnVcC |
| AwEAAaOCAdEwggHNMAkGA1UdEwQCMAAwCwYDVR0PBAQDAgWgMEUGA1UdHwQ+MDww |
| OqA4oDaGNGh0dHA6Ly9TVlJTZWN1cmUtRzItY3JsLnZlcmlzaWduLmNvbS9TVlJT |
| ZWN1cmVHMi5jcmwwRAYDVR0gBD0w0zA5BgtghkgBhvhFAQcXAzAqMCgGCCsGAQUF |
| BwIBFhxodHRwczovL3d3dy52ZXJpc21nbi5jb20vcnBhMB0GA1UdJQQWMBQGCCsG |
| AQUFBwMBBggrBgEFBQcDAjAfBgNVHSMEGDAWgBS17wsRzsBBA6NKZZBIshzgVy19 |
| RzB2BggrBgEFBQcBAQRqMGgwJAYIKwYBBQUHMAGGGGh0dHA6Ly9vY3NwLnZlcmlz |
| aWduLmNvbTBABggrBgEFBQcwAoY0aHR0cDovL1NWUlNlY3VyZS1HMi1haWEudmVy |
| aXNpZ24uY29tL1NWUlNlY3VyZUcyLmNlcjBuBggrBgEFBQcBDARiMGChXqBcMFow |
| WDBWFglpbWFnZS9naWYwITAfMAcGBSs0AwIaBBRLa7kolgYMu9BS0JsprEsHiyEF |
| GDAmFiRodHRwOi8vbG9nby52ZXJpc21nbi5jb20vdnNsb2dvMS5naWYwDQYJKoZI |
| hvcNAQEFBQADggEBALpFBXeG782QsTtGwEE9zBcVCuKjrsl3dWK1dFiq30P4y/Bi |
| ZBYEywBt8zNuYFUE25Ub/zmvmpe7p0G76tmQ8bRp/4qkJoiSesHJvFgJ1mksr3IQ |
| 3gaE1aN2BSUIHxGLn9N4F09hYwwbeEZaCxfgBiLdEIodNwzcvGJ+2LlDWGJ0GrNI |
| NM856xjqhJCPxYzk9buuCl1B4Kzu0CTbexz/iEgYV+DiuTxcfA4uhwMDSe0nynbn |
| 1qiwRk450mCOnqH4ly4P4lXo02t4A/DI1I8ZNct/Qfl69a2Lf6vc9rF7BELT0e5Y |
| R7CKx7fc5xRaeQdyGj/dJevm9BF/mSdnclS5vas= |
| END CERTIFICATE |
| |

If your certificate is issued by an intermediate CA, your certificate file will consist of multiple certificates. In this case, you need to manually splice the server certificates and intermediate certificates for upload by putting the server certificate content before the intermediate certificate content without any blank lines in between. Please refer to the rules or instructions that came with the certificate.

- · There should be no blank lines between the certificates
- All certificates are in PEM format

A certificate chain from an intermediate CA comes in this format:

```
-----BEGIN CERTIFICATE-----

-----END CERTIFICATE-----

-----BEGIN CERTIFICATE-----

-----BEGIN CERTIFICATE-----

-----END CERTIFICATE-----
```

Private key

Common private key extensions include ".pem" and ".key". Open the private key file in a text editor and you will see content similar to the one shown below.

A ".pem" private key begins with "-----BEGIN RSA PRIVATE KEY-----" and ends with "-----END RSA PRIVATE KEY----

--". Every line in between contains 64 characters, while the last line may have less than 64 characters.

----BEGIN RSA PRIVATE KEY--



If your private key begins with "-----BEGIN PRIVATE KEY-----" and ends with "-----END PRIVATE KEY-----", we recommend you convert the format using OpenSSL with the following command:

openssl rsa -in old_server_key.pem -out new_server_key.pem

Converting other formats to PEM

Currently, CDN only supports certificates in PEM format. Certificates in other formats need to be converted to PEM format. We recommend you use OpenSSL. The following shows how to convert some common formats to PEM.

DER to PEM

DER format is generally used on Java platforms. Certificate conversion:

openssl x509 -inform der -in certificate.cer -out certificate.pem

Private key conversion:



openssl rsa -inform DER -outform PEM -in privatekey.der -out privatekey.pem

P7B to PEM

P7B format is generally used on Windows Server and Tomcat. Certificate conversion:

```
openssl pkcs7 -print_certs -in incertificat.p7b -out outcertificate.cer
```

Open outcertificat.cer with a text editor to view the content of the PEM certificate. Private key conversion: private keys can generally be exported on IIS servers.

PFX to PEM

PFX format is generally used on Windows Server.

Certificate conversion:

openssl pkcs12 -in certname.pfx -nokeys -out cert.pem

Private key conversion:

openssl pkcs12 -in certname.pfx -nocerts -out key.pem -nodes

Completing certificate chain

When configuring a private certificate, you may encounter an issue that the **certificate chain cannot be completed**, as shown below.

In this case, you can paste the certificate content (in PEM format) issued by the CA after the domain name certificate (in PEM format) to complete the certificate chain. You can also submit a ticket for assistance.

Hosted Certificate

Tencent Cloud provides a certificate hosting service: SSL Certificates Service. You can upload existing certificates to SSL Certificates Service Console for unified hosting and deployment on other Tencent Cloud products. It also allows you to purchase and apply for certificates.

SSL Certificates Service provides you with 20 DV SSL certificates issued by TrustAsia free of charge.

HTTPS Configuration Guide

Last updated : 2021-06-09 10:59:37

Configuration Overview

Tencent Cloud CDN supports the HTTPS acceleration service. You can upload certificates to deploy them or directly deploy certificates hosted in Tencent Cloud SSL Certificate Service to the CDN platform. In this way, you can enable the HTTPS acceleration service to implement encrypted data transfer over the entire network.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and open the **HTTPS Configuration** tab.

HTTPS Configuration

HTTPS provides ID verification for network service, in order to protect the privacy and integrity of data exchange. What's HTTPS? 🗹

You can select **Certificate Management** on the left sidebar to view all domain names configured with HTTPS acceleration under your account.

| ertificate | | | | | | | | | |
|------------|---|--|--------------------|-----------------------|---------------------|----------------------|-------------------------|-------------|--|
| | | already have one. You can configure, s ste management 🔽 to apply for a DV 3 | | | | | | | |
| | Configure Certificate Batch Configuration | | | Search by domain name | Q, | | | | |
| | Domain | | Certificate remark | Certificate source | Expiry Time \$ | Origin-pull Protocol | Certificate status | Operation | |
| | | | (interior) | Own certificate | 2020-10-22 20:00:00 | HTTP Forwarding | Configuration succeeded | Edit Delete | |

Configuring a certificate

1. Select a domain name

On the **Certificate Management** page, click **Configure Certificate** and select the acceleration domain name to be configured with a certificate:

- The status of the acceleration domain name needs to be "Deploying" or "Enabled". Disabled domain names cannot be configured with HTTPS acceleration.
- Domain names suffixed with .file.myqcloud.com are the default acceleration domain names of Tencent Cloud COS and can use HTTPS acceleration without configuring any certificates.
- Domain names suffixed with .image.myqcloud.com are the default acceleration domain names of Tencent Cloud CI and can use HTTPS acceleration without configuring any certificates.

The certificate can be deployed to the following domains. The new certificate will be deployed to all service regions of selected CDN domains.

Select the domain you want to configure certificate

Domain

Enter keywords/Select from dro... 🔻

2. Select a certificate

If there is an existing certificate in PEM format, you can directly paste its content and private key to the corresponding fields:

- CDN supports ECC certificate deployment.
- The certificate content must be in PEM format. If not, please see Converting other formats to PEM.
- You can select a certificate hosted by Tencent Cloud for quick deployment.



| Select a certificate | |
|----------------------|--|
| Certificate source | Own certificate Orencent Cloud Hosting Certificate |
| Certificate Content | PEM code |
| | View examples 🛛 |
| Private key contents | PEM code |
| | View examples 🛛 |
| Remark (optional) | Please enter remark contents |

Configuring in batches

Click **Batch Configuration** at the top. You can upload certificates to automatically match domain names for batch configuration:

1. Select a certificate

If there is an existing certificate in PEM format, you can directly paste its content and private key to the corresponding fields:

- CDN supports ECC certificate deployment.
- The certificate content must be in PEM format. If not, please see Converting other formats to PEM.
- You can select a certificate hosted by Tencent Cloud for quick deployment.

| Tencent Cl | loud | Content Delive |
|---------------------|---|--|
| Upload Certifi | icate > 2 Associate domain name, select origin-pull protocol |) 3 Done |
| | can be deployed to the following domains. The new certificate will be deployed to all s configure certificates for acceleration domain in the status of "Deploying" and "Activated | |
| ertificate source | Own certificate Tencent Cloud Hosting Certificate Click SSL certificate management 🗹 to view details of your host | sting certificates or apply for a FREE one |
| ertificate Content | PEM code | |
| | | |
| | View examples 🗹 | |
| rivate key contents | PEM code | |
| | | |
| | View examples 🗳 | |
| emark (optional) | Please enter remark contents | |
| | | |
| | Next | |

2. Select a domain name

Based on the uploaded or selected certificate, CDN will automatically match the domain names that allow the configuration. You can select the domain names for configuration as needed:



Select a bound domain name

| Associate with Domain | Display only domain names with SSL certificates | | | | | |
|-----------------------|---|---------------------------|-------------|--|--|--|
| | Domain | Certificate status | Expiry Time | | | |
| | | No available domain names | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | Selected 0 items, Total 0 items | | | | | |

Changing a certificate

Modifying a certificate

Click **Edit** on the right of a certificate to update it for the specified domain name. You can also configure certificates in batches again to override the original certificate configurations.

| Domain | Certificate remark | Certificate source | Expiry Time * | Origin-pull Protocol | Certificate status | Operation |
|--------|--------------------|--------------------|---------------------|----------------------|-------------------------|-------------|
| | | Own certificate | 2020-10-22 20:00:00 | HTTP Forwarding | Configuration succeeded | Edit Delete |
| | | Own certificate | 2020-10-22 20:00:00 | HTTP Forwarding | Configuration succeeded | Edit Delete |

Certificate updates will seamlessly take effect on nodes one by one across the entire network without affecting the HTTPS service in the production environment. You can also click **Delete** to cancel the HTTPS acceleration service.

Certificate expiration

Tencent Cloud will send you expiration reminders through SMS, email, and the Message Center 30, 15, and 7 days before the expiration of your certificate and on the day of its expiration. Currently, reminder recipients for SSL

certificates can be customized. You can access the Message Subscription page for configuration.

Region-specific configuration

If your domain name is configured for global acceleration, the configured HTTPS certificate will take effect globally. Currently, the certificates configured for the regions in and outside the Chinese mainland must be the same.

If a domain name has different certificates in/outside the Chinese mainland, you will see Chinese mainland and outside Chinese mainland tags on the **Certificate Management** page, which indicate that the domain names with tags have different legacy configurations.

Under the **Advanced Configuration** tab of the domain name, you can also see two configurations:

Forced Redirection Configuration

Last updated : 2020-12-31 15:46:07

Configuration Overview

Tencent Cloud CDN supports HTTPS/HTTP forced redirection.

- If a domain name is configured with a certificate for HTTPS acceleration, you can specify the 301/302 redirection method to force all HTTP requests at the CDN node to be HTTPS requests.
- You can also specify the 301/302 redirection method to force all HTTPS requests at the CDN node to be HTTP requests.

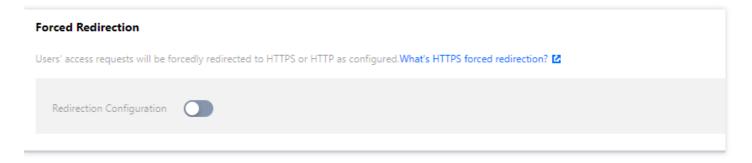
Configuration Guide

Configuration limitations

HTTPS acceleration must be enabled for configuring HTTPS forced redirection.

Configuration instructions

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and open the **HTTPS Configuration** tab to find the **Forced Redirection** section. The feature is disabled by default.



Toggle it on, and configure the redirection type, method:



| Redirection Type Configuration | | |
|--------------------------------|--|--|
| Redirection Type | O Https->Http Http->Https | |
| Redirection Method | ◯ 301 Redirection ○ 302 Redirection | |
| | Confirm | |

Finally, click **Confirm** to deploy the configuration:

HTTP2.0 configuration

Last updated : 2021-03-24 16:39:44

Configuration Overview

HTTP2.0 is the latest HTTP version which greatly enhances the web performance and further reduces the network delay. HTTP2.0 can be directly enabled for the domain names with certificates configured and HTTPS acceleration enabled.

A Note:

Currently, only HTTP2.0 access is supported. HTTP2.0 origin-pull is not supported.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **HTTPS Configuration** tab to find the **HTTP2.0 Configuration**, which is enabled by default.

HTTP2.0 Configurations Please configure a HTTPS certificate first to enable this configuration. What's HTTP2.0?

Modifying the configuration

Toggle the switch to enable or disable HTTP2.0. If the domain name certificate is deleted, HTTP2.0 will be automatically disabled.



HTTP2.0 Configurations

Please configure a HTTPS certificate first to enable this configuration. What's HTTP2.0? 🛂



▲ Note:

If a domain name is configured for global acceleration, the HTTP2.0 configuration will be applied to global regions, regardless of whether they're inside or outside the Chinese mainland.

OCSP Stapling Configuration

Last updated : 2021-11-24 15:30:30

Overview

After OCSP stapling (a TLS certificate status query extension) is enabled, the server will send a pre-cached Online Certificate Status Protocol (OCSP) response during the TLS handshake for user verification, so that the user does not need to send a query request to the certificate authority (CA). OCSP stapling greatly improves the efficiency of TLS handshake and reduces user verification time.

Tencent Cloud CDN allows you to enable/disable OCSP stapling.

Directions

Viewing the configuration

Log in to the CDN Console, select **Domain Management** on the left sidebar, and click **Manage** on the right of the domain name to access its configuration page. Under the **HTTPS Configuration** tab, find **OCSP Stapling Configuration**, which is disabled by default:

OCSP Stapling Configuration

Please configure a HTTPS certificate first to enable this configuration. What's OCSP stapling? 🛂

OCSP Stapling

Modifying the configuration

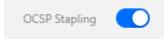
If a domain name has been configured with HTTPS acceleration, you can directly toggle the OCSP stapling switch to enable/disable this feature. After the certificate configuration is deleted, OCSP stapling will automatically be



invalidated:

OCSP Stapling Configuration

Please configure a HTTPS certificate first to enable this configuration. What's OCSP stapling? 🛂



Note:

If your domain name is configured for global acceleration, the OCSP stapling configuration will take effect globally. This configuration does not distinguish between requests from and outside the Chinese mainland.

HSTS Configuration

Last updated : 2021-03-01 10:33:32

Configuration Overview

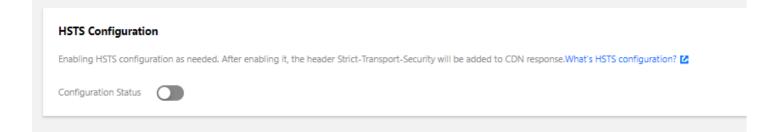
HTTP Strict Transport Security (HSTS) is a web security protocol promoted by the Institution of Electronics and Telecommunication Engineers (IETE). It forces the client (such as a browser) to use HTTPS to create a connection with the server so as to help encrypt the website globally.

Configuration Limitations

- expireTime can range from 0 to 365 days and is configured in seconds.
- Check includeSubDomain if you need to include sub-domain names.
- To enable HSTS configuration, HTTPS acceleration configuration must be completed first.
- After the HSTS configuration is enabled, we recommend enable Forced Redirection Configuration to redirect HTTP requests to HTTPS requests. Otherwise the browser will not create HSTS cache for HTTP requests.

Configuration Guide

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **HTTPS Configuration** tab to find the **HSTS Configuration** section. It is disabled by default.



Toggle it on and configure accordingly:

| HSTS Configuration | | × |
|-------------------------|---------------------|---|
| Expiry Time | - 0 + seconds | |
| Contain sub-domain name | O Exclude O Include | |
| | Confirm Cancel | |
| _ | | _ |

Click Confirm to apply the configuration to the response header. You can click Edit to modify it later.

| HSTS Configuration | |
|-----------------------------|---|
| Enabling HSTS configuration | n as needed. After enabling it, the header Strict-Transport-Security will be added to CDN response.What's HSTS configuration? 🛂 |
| Configuration Status | Edit |
| Expiry Time | 33333 seconds |
| Contain sub-domain name | Exclude |

Configuration Sample

If the HSTS configuration of the domain name cloud.tencent.com is as follows:

| HSTS Configuration | |
|---------------------------|---|
| Enabling HSTS configurati | on as needed. After enabling it, the header Strict-Transport-Security will be added to CDN response. What's HSTS configuration? 🛂 |
| Configuration Status | Edit |
| Expiry Time | 2 seconds |
| Contain sub-domain name | Exclude |

The response header is:

| | Usedana | Duraviauu | D | In Markey | Timina | |
|-----|--------------|------------------|--------------|-----------|---------------|--|
| × | Headers | Preview | Response | Initiator | Timing | |
| | Referrer P | olicy: no-r | eferrer-wh | en–downgı | ade | |
| ▼ R | lesponse H | eaders | | | | |
| | accept-rar | ges: byte | s | | | |
| | cache-con | trol: max-a | ige=600 | | | |
| | content-le | ngth: 615 | | | | |
| | content-ty | pe: text/h | ntml | | | |
| | date: Sun | 28 Jun 2 | 2020 08:48: | :56 GMT | | |
| | expires: S | un, 28 Ju | n 2020 08: | 58:56 GM1 | | |
| | last-modif | ed: Sun, 2 | 29 Sep 2019 | 9 03:51:2 | ð GMT | |
| | server: NW | S_TCloud_ | S1 | | | |
| | status: 20 | 0 | | | | |
| | strict-trans | sport-secur | ity: max-age | =33333; | | |
| | x-cache-lo | okup: Hit | From Diskt | tank3 | | |
| | x-cache-lo | okup: Hit | From Inner | r Cluster | | |
| | x-daa-tunr | el: hop_co | ount=1 | | | |
| | x-nws-log- | uuid: 804a | 18e96-c78c- | 487d-9cf | -298475e85dd1 | |
| | | | | | | |

TLS Version Configuration

Last updated : 2021-01-08 15:19:01

Feature Overview

Tencent Cloud CDN enables TLS 1.0/1.1/1.2 and disables TLS 1.3 by default. You can enable and disable TLS versions as needed.

A Note:

- Make sure the HTTPS certificate is properly configured.
- TLS version configuration is now only available in the Chinese mainland regions. If the acceleration region of a domain name is "Global", then the configuration changes will take effect only in the Chinese mainland.
- This feature may be unavailable in some platforms. We will complete server upgrade as soon as possible.

Configuration Guide

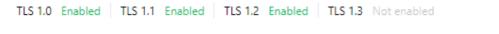
Viewing configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and open the **HTTPS Configuration** tab to find the **TLS Version Configuration** section.

By default, TLS 1.0/1.1/1.2 are enabled and TLS 1.3 is disabled.

TLS Version Configuration

CDN enables TLS 1.0/1.1/1.2 by default. You can disable or enable TLS versions as needed. What's TLS version configuration?

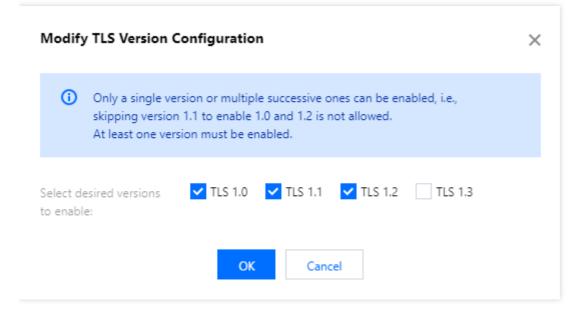


Modify Configuration

Modifying configuration



Open Modify Configuration to enable and disable TLS versions as needed.



Configuration limitations

- You can enable a single version or multiple consecutive ones. For example, you can enable version 1.0, 1.1 and 1.2, but not version 1.0 and 1.2.
- At least one version must be enabled.

QUIC

Last updated : 2023-08-24 16:09:21

Announcement:

Tencent Cloud CDN will officially launch QUIC support on January 5, 2022. QUIC support is billed based on the number of QUIC requests. For more details, see Billing Overview. We will notify you in advance of your subscription being billed. Please pay attention to our announcements in the console and documentation.

Feature Overview

Quick UDP Internet Connections (QUIC) is a common network protocol, which guarantees network security and reduces the latency in transfer and connections to prevent network congestion. You can enable QUIC protocol for clients to access CDN nodes with enhanced data transfer security and access efficiency.

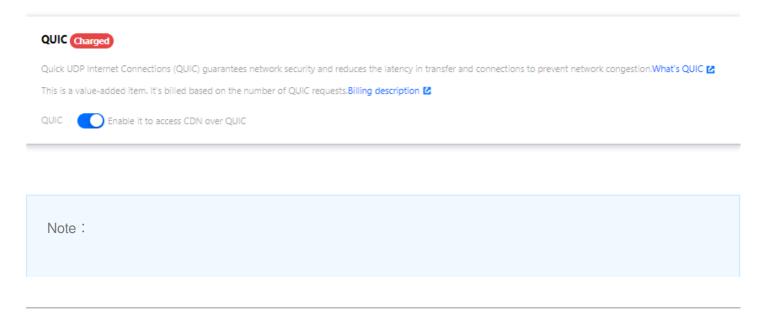
For now, the supported QUIC versions include draft h3-28, h3-Q050, h3-Q046, h3-Q043, Q046, and Q043.

Directions

1. Enable QUIC:

After adding a domain name, you can click **Domain Management** on the left sidebar, in the domain name details page, select **HTTPS Configuration** -> **QUIC configuration**. QUIC is disabled by default, and you can enable it manually.

Note: An HTTPS certificate is required to enable QUIC.



- Switching service types concerns resource scheduling between platforms. We recommend not switching service types for domain names after enabling QUIC.
- QUIC requests cannot be forwarded to the origin.
- QUIC is only partially supported for now.

Use Limits:

- QUIC is now not available for on-demand video streaming acceleration.
- QUIC cannot be enabled for any domain names with IPv6 enabled.
- 2. Disable QUIC:

You can go to **Domain Management** > **HTTPS Configuration** > **QUIC**, and disable QUIC.

Billing

QUIC support is a value-added service, which is billed based on the number of QUIC requests and supports pay-asyou-go. For details, see Billing Overview.

FAQs about HTTPS

Last updated : 2021-06-15 14:15:11

What is HTTPS?

HTTPS refers to Hypertext Transfer Protocol Secure, a security protocol that encrypts and transfers data based on the HTTP protocol to ensure the security of data transfer. When configuring HTTPS, you need to provide a certificate for the domain name and deploy it on all CDN nodes to implement encrypted data transfer across the entire network.

Does CDN support HTTPS configuration?

Yes. Tencent Cloud CDN fully supports HTTPS configuration. You can either upload your own certificate for deployment or go to the SSL Certificate Service console to apply for a free third-party certificate provided by TrustAsia.

How do I configure an HTTPS certificate?

You can configure an HTTPS certificate in the CDN console. For detailed directions, please see HTTPS Configuration Guide.

Do the HTTPS certificates on CDN nodes need to be synchronized with HTTPS certificate updates on the origin server?

No. Updating the HTTPS certificate of your origin server does not affect the one configured on CDN. You only need to update the HTTPS certificate on CDN when it is or about to be expired.

Can I deny HTTP access and allow HTTPS access only?

Yes. After successfully configuring an HTTPS certificate, you can use the Forced Redirection feature. HTTP requests from users will be forcibly redirected to HTTPS requests.

| PS Configuration | | | | |
|---|--|-------------------------------------|---------------|--------------|
| PS provides ID verification for network service, in o | rder to protect the privacy and integrit | y of data exchange. What's HTTPS? 🛚 | | |
| | | | | |
| | | | | |
| orced Redirect to HTTPS | | | | |
| | | | | |
| orced Redirect to HTTPS | | | | |
| | Expiry Time | Origin-pull Protocol | Certificate s | More Actions |

Why does HTTPS access not work after CDN is configured?

For HTTPS access, please configure it as instructed:



1. Log in to the CDN console, select Domain Management on the left sidebar, and click Manage on the right of a

domain name to enter its management page.

| CDN | Domain Management | |
|---|---|---|
| Overview | Create a Distribution More Actions * Mirror Domain Management | Q ± ¢ Ø |
| Domain Management | Domain CNAME Status T Origin t T Filter pa T Origin T Service T Project T | Service T HTTPS T Operation |
| Certificate Statistics • | Activated External Activated HTTP | Download ac Undeployed Disable More* |
| \odot Refresh and | | WORT |

2. Open the **Advanced Configuration** tab to find the **HTTPS Configuration** section, and click **Configure Now** to go to the **Certificate Management** page. For configuration directions, please see HTTPS Configuration Guide.

| | | | | - | - | | |
|--------------------------------------|---------------------|--------------------------------------|-----------------------------|------------------------------|--|---------------------------------|---------------------------------|
| CDN | Basic Configuration | Access Control | Cache Configuration | Origin Configuration | Security Configuration | Advanced Configuration | |
| | | Crears hander O | rigin-pull Optimization | | | | |
| III Overview | | cross-border of | ngin-pun Optimization | | | | |
| Domain Management | | Optimizing the li | inkage connecting the Ten | cent Cloud acceleration no | des in and outside mainland C | hina, to effectively reduce the | origin-pull latency. |
| Certificate | | Optimization | Strategy Checking | | | | |
| O Statistics * | | Mainland China- | to-Overseas Origin-pull O | ptimization | | | |
| ^C Refresh and Prefetch | | Overseas-to-Mai | inland China Origin-pull O | ptimization | | | |
| Log Service | | | | | | | |
| Query Service | | Bandwidth Cap | Configuration | | | | |
| () Global Status | | You can set to di Bandwidth Cap (| | ard requests to origin serve | r when the bandwidth consum | ned in the reference period (5 | mins) exceeds the limit. What's |
| Business Report | | | 5 | | | | |
| ③ Data | | Bandwidth Ca | p 🔵 Edit | | | | |
| Packages | | Max Bandwidt | th 10Gbps | | | | |
| Inspect Tool | | Cap Exceeded | Return 404 | | | | |
| Verify Tencent Cloud CDN IP | | | | | | | |
| | | HTTPS Configu | ration | | | | |
| Value-added Servic | | HTTPS provides | ID verification for network | service, in order to protect | the privacy and integrity of da | ata exchange, What's HTTPS? | |
| е | | | | | ···· p····-) -··- ···- j··· j ··· j ··· j | | |
| Pornograhpy Detection | | HTTPS not cor | nfigured | | | | |
| Security * Protection | | Configure N | Now | | | | |
| ⊕ TBC | | | | | | | |

HTTPS access can be enabled after the certificate is successfully configured.

Advanced Configuration Usage Limit Configuration

Last updated : 2022-11-17 11:30:33

Overview

If you worry about high fees incurred by high bandwidth or traffic usage due to hotlinking by malicious users, you can use the usage limit feature to control the usage.

When the bandwidth or traffic usage during a statistical period exceeds the configured alarm threshold, CDN will push a message notification to you; when the bandwidth cap is exceeded, you can disable CDN to avoid incurring more CDN service fees.

Note :

It will take about ten minutes for the usage limit configuration to take effect, during which the usage will be normally billed. For more information, see Attack Prevention Solutions.

Directions

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. You will find the **Usage Limit Configuration** on the **Advanced Configuration** tab, which is disabled by default.

| Usage Limit Co | Jsage Limit Configuration | | |
|---------------------|---|--|--|
| You can disable the | You can disable the CDN service when the resource usage in the sampling period exceeds the threshold. About Usage Limit 🗹 | | |
| On/Off | Edit | | |
| Туре | Instantaneous bandwidth usage limit | | |
| Sampling period | Per 5 minutes | | |
| Threshold | 10Gbps | | |
| Cap Exceeded | Return 404 | | |
| Custom threshold | | | |
| | | | |

Detailed configuration items

1. Enabling the configuration

Toggle the switch on and configure the items:

| Configure Usage | e Limit | × |
|---|--|---|
| sampling perion name again or service. • The configura traffic that exc | vill be suspended if the consumption generated in the od exceeds the threshold. You can activate the domain n the domain management page to recover the CDN tion may take effect in about 10 minutes, during which the ceeds the limit will incur charges. For more details, | |
| For Tencent Cl (indicating CD If you set a cu | evention Solutions 2 loud COS origins, you can only select "Return 404 IN is disabled)" imulative usage limit, usage data will be accumulated pling period, and the collected data will be cleared once a | |
| new sampling | period begins. | |
| Statistic Type | O Instantaneous usage Cumulative usage Accumulate the resource usage within the sampling period | |
| Sampling period | Per 5 minutes | |
| Threshold | Bandwidth 💌 🗕 10 🕂 Gbps 💌 | |
| | Enter an integer in the range 1-10000. You are now billed by traffic. It is recommended to set a traffic limit. | |
| Limit Reached | • Return 404 (indicating CDN is deactivated) CDN service will be suspended if the resource used by the domain name exceeds the threshold. You need to activate the domain name again on the domain management page to recover the CDN service. | |
| Custom threshold | Enable The value can be 10% to 90%. When the ratio of Access bandwidth used/limit reaches this value, CDN will send an alarm message. | |
| | OK Cancel | |

- Statistic Type:
 - Instantaneous usage: It collects statistics on the traffic/bandwidth usage once every five minutes.
 - Cumulative usage: Compared with instantaneous usage, it supports a longer statistical period (every hour or calendar day).

Note:

Cumulative usage limit configuration is not supported for domain names with the acceleration type of dynamic content or dynamic & static content.



• Statistical Period: Per 5 minutes, per hour, or per day (before 24:00 of the day).

Note :

- A statistical period starts from 5 minutes before the configuration time:
 For example, if the rule is configured during 09:05:01–09:09:59, the statistical period will start from 09:05:00.
- If **Per hour** is selected as the statistical period, (1) the first statistical period will be less than one hour; (2) starting from the next statistical period, usage statistics will be collected once every hour.
 For example, if the rule is configured at 09:23:10 on January 13, 2022, the first statistical period will be 9:20:00–9:59:59, and the next one will be 10:00:00–10:59:59.
- If **Before 24:00 of the day** is selected as the statistical period, the statistical period will be 09:20:00–23:59:59 on January 13, 2022.
- Limit: Instantaneous usage supports both **Traffic** and **Bandwidth** options, while cumulative usage supports only **Traffic**.
 - Traffic: It collects statistics on the traffic usage of the domain name. The traffic limit is the maximum traffic for user access to the domain name.
 - Bandwidth: It collects statistics on the bandwidth usage of the domain name. The maximum bandwidth is the maximum bandwidth for user access to the domain name.
- Unblocking period: Scheduled unblocking and Never unblock are supported.
 - Scheduled unblocking: 60 minutes, 12 hours, 24 hours, or 3 days.

For example, if the domain name ex.com is set to return 404 (CDN is disabled) after the limit is exceeded, and the automatic unblocking period is set to 60 minutes, then after the configured cumulative usage limit is exceeded, CDN will be disabled, and the acceleration domain name will be deactivated and will be automatically unblocked after 60 minutes.

- Never unblock: If you worry that your domain name may be susceptible to high-traffic or high-bandwidth attacks, you can configure **Never unblock**. If the domain name is set to return 404 (CDN is disabled) after the limit is exceeded, then after the configured cumulative usage limit is exceeded, the domain name will be deactivated, and you should manually enable domain name acceleration in the console if needed.
- When cap is exceeded:
 - Return 404: After the cap is exceeded, CDN will be directly disabled for the domain name. In this case, you can go to the **Domain Management** page to activate the domain name again to resume the CDN service.
 Note: If the **Origin Type** is **COS Origin** or **Third-Party Object Storage Origin**, only **Return 404** (CDN is disabled) is supported.

• Alarm Threshold:

When the ratio of access bandwidth to traffic limit exceeds the configured percentage (only a multiple of 10 is supported, i.e., 10%–90%), CDN will push an alarm message.

Note:

- If the detected domain name bandwidth (traffic) exceeds the threshold, the **Return 404** configuration needs to be delivered node by node across the entire network; therefore, there will be a certain delay for the configuration to take effect.
- If the alarm threshold is enabled, as the scan interval is five minutes, if the usage surges or the configured percentage value is large, it may happen that the alarm threshold is not triggered during the previous scan, and the bandwidth cap is directly reached during the next scan. In this case, CDN will send alarm notifications of the percentage and the bandwidth cap successively.

2. Adding a region-specific configuration

If your acceleration domain name is configured for global acceleration and you want to configure different usage limits for acceleration in and outside the Chinese mainland, you can click **Add Special Configuration**.

Add Special Configuration The special configuration is independent of the default configuration. You can add the special configuration for a specific service region (overseas/Chinese mainland)

Note:

- Currently, an added region-specific configuration can only be disabled but not deleted.
- Region-specific configuration is not supported for domain names with the acceleration type of dynamic content or dynamic & static content.

Configuration examples

Suppose the domain name cloud.tencent.com is configured for global acceleration, and a region-specific usage limit configuration (for regions outside the Chinese mainland) is added as follows:

🔗 Tencent Cloud

Usage Limit Configuration

You can disable the CDN service when the resource usage in the sampling period exceeds the threshold. About Usage Limit 🛂

| Chinese Mainla | nd Configuration | Overseas Region Configuration | | |
|------------------|-------------------------------------|-------------------------------|-------------------------------------|--|
| On/Off | Edit | On/Off | Edit | |
| Туре | Instantaneous bandwidth usage limit | Туре | Instantaneous bandwidth usage limit | |
| Sampling period | Per 5 minutes | Sampling period | Per 5 minutes | |
| Threshold | 10Gbps | Threshold | 15Gbps | |
| Cap Exceeded | Return 404 | Cap Exceeded | Return 404 | |
| Custom threshold | | Custom threshold | | |

- Mutual independence of configurations for regions in and outside the Chinese mainland: If Outside Chinese mainland is selected for the region-specific configuration, the initial configuration will take effect in the Chinese mainland. After the traffic from the Chinese mainland reaches 4 GB during a statistical period (5 minutes), the 404 error will be returned for all requests from the Chinese mainland, without affecting the service outside the Chinese mainland; after the traffic from outside the Chinese mainland reaches 11 GB during a statistical period (before 24:00 of the day), the 404 error will be returned for all requests from all requests from outside the Chinese mainland reaches 11 GB during a statistical period (before 24:00 of the day), the 404 error will be returned for all requests from outside the Chinese mainland, without affecting the service mainland, without affecting the service mainland.
- Acceleration region switch: If the acceleration region of a domain name is switched from global to Chinese
 mainland, the usage limit configuration for outside the Chinese mainland will be disabled by default and cannot be
 edited.

3. Disabling the configuration

You can toggle off the usage limit feature. Then, even if there is existing configuration at the bottom, it will not take effect in the production environment. If you toggle the switch on, a message will be displayed asking you whether to enable this feature before the configuration takes effect across the entire network.

HTTP Response Header

Last updated : 2022-02-26 13:47:37

Configuration Overview

When an end user requests a business resource, you can add a custom header in the returned **response message** to implement cross-origin resource sharing.

Response header configuration is of the domain name dimension, therefore, once the configuration takes effect, it will be synced to the response message of each resource under the domain name. Response header configuration only makes changes to the client (browser) response but not to the CDN node cache.

Directions

Viewing the configuration

Log in to the CDN Console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Advanced Configuration** tab to find the **Response Header Configuration** setting, which is disabled by default. You can click **Add Rule** to add HTTP response header rules.

| sponse Header Configuration | | | | |
|---|--|--|--|--|
| he configuration of response header may affect the responses from client programs (browser). What's response header configuration? 🛛 | | | | |
| Configuration Status | | | | |
| The configuration below can be modified when it is disabled, but the configuration will not be deployed officially until it is enabled. | | | | |
| Add Rule Adjust Priority | | | | |
| Header Operation Header Parameter Header Value Operation | | | | |
| No data yet | | | | |

Operation type

| Operation | Description |
|-----------|--|
| Set | Changes the value of a specified response header parameter. If the target header does not exist, it will be added after the change operation. If the header parameter already exists, all the duplicates will be changed and merged into one header. For example, after the rule "Set - x-cdn: value1" is configured, if a request contains multiple x-cdn headers, the headers will be changed and merged into one header x-cdn: value1. |



| Operation | Description |
|-----------|--|
| Delete | Deletes a specified response header parameter. |

Note:

- Some headers cannot be set or deleted in a self-service manner. For the detailed list, see Notes.
- Up to 10 HTTP response header rules can be configured.
- Rule priority can be adjusted. Rules at the bottom of the list have higher priority. If a header parameter is configured with multiple rules, the bottom rule will take effect as rules are executed from bottom to top.

Header parameter

| Header Parameter | Description |
|------------------------------|---|
| Access-Control-Allow-Origin | Cross-origin resource sharing (CORS) header, which specifies the domain allowed to access resources. If a source request host is configured as a header parameter value, it will be filled in to the response header. You can also set it as * to allow all domains to access resources. For more information, see Access-Control-Allow-Origin Match Mode Description. The wildcard * , domain names, and IPs are supported. http:// or https:// must be contained. Please separate multiple ones with , , and up to 1000 characters are supported. E.g., http://test.com,http://1.1.1.1 . |
| Access-Control-Allow-Methods | Specifies the CORS HTTP request method and supports multiple methods at the same time: Access-Control-Allow-Methods: POST, GET, OPTIONS. |
| Access-Control-Max-Age | Specifies the validity period (in seconds) of a preflight request. For a non-simple CORS request, an HTTP query request, namely the preflight request, is needed before the official communication to check whether the CORS request is secure to be accepted. A CORS request is non-simple if it is: Not a GET, HEAD, or POST request, or it is a POST request but its request data type is application/xml, text/xml or any other data type except application/x-www-form-urlencoded, multipart/form-data, and text/plain. For example, if a custom request header is Access-Control-Max- Age:1728000, there will not be another CORS preflight request sent within 1,728,000 seconds (20 days). |



| Header Parameter | Description |
|-------------------------------|--|
| Access-Control-Expose-Headers | <pre>Specifies which headers can be exposed to clients as a part of responses. By default, these 6 headers can be exposed to clients: Cache- Control, Content-Language, Content-Type, Expires, Last-Modified, and Pragma. If you want to make other headers accessible to clients, you can separate multiple headers with, , e.g., Access-Control-Expose- Headers: Content-Length, X-My-Header . In this way, clients can access the two headers Content-Length and X-My-Header .</pre> |
| Content-Disposition | Activates download in the browser and sets the default filename of the downloaded resource. When a server sends files to a client browser, with the file types such as TXT and JPG supported by the browser, the files will be directly opened in the browser by default. If you want the user to save the files, you can configure the Content-Disposition field to override the browser's default behavior. The common configuration is as follows: Content- Disposition:attachment; filename=FileName.txt |
| Content-Language | Specifies the language code used on the page. The common configuration is as follows: Content-Language: zh-CN Content-Language: en-US |
| Custom | Supports custom header and key-value pair settings. A custom header parameter supports 1-100 characters of uppercase and lowercase letters, digits, and hyphens (-). The parameter value supports 1-1000 characters excluding Chinese characters. |

Access-Control-Allow-Origin match mode introduction

| Match Mode | Origin Value | Description |
|---------------|--------------|---|
| Full match | * | If it is set to*, the headerAccess-Control-Allow-Origin:*will be added to the response. |



| Match Mode | Origin Value | Description |
|---|--|--|
| Fixed match | <pre>http://cloud.tencent.com https://cloud.tencent.com http://www.b.com</pre> | The source <pre>https://cloud.tencent.com hits the list, so the header Access-Control- Allow-Origin: https://cloud.tencent.com will be added to the response. The source <pre>https://www.qq.com</pre> does not hit the list, so the response will not change.</pre> |
| Second- level wildcard domain name match | https://*.tencent.com | The source https://cloud.tencent.com hits the list, so the header Access-Control- Allow-Origin: https://cloud.tencent.com will be added to the response. The source https://cloud.qq.com does not hit the list, so the response will not change. |
| Port match | https://cloud.tencent.com:8080 | The source https://cloud.tencent.com:8080 hits the list, so the header Access-Control-Allow- Origin:https://cloud.tencent.com:8080 will be added to the response. The source https://cloud.tencent.com does not hit the list, so the response will not change. |

Note :

If there are special ports, you need to enter the relevant information in the list. You must specify the port as arbitrary port match is not supported.

Notes

The headers below are not supported and will not take effect if configured:

```
Date
Expires
Content-Type
Content-Encoding
Content-Length
Transfer-Encoding
Cache-Control
```

If-Modified-Since Last-Modified Connection Content-Range ETag Accept-Ranges Age Authentication-Info Proxy-Authenticate Retry-After Set-Cookie Vary WWW-Authenticate Content-Location Content-MD5 Content-Range Meter Allow Error

SEO Configuration

Last updated : 2022-02-26 13:41:13

Overview

SEO configuration is a feature that solves the problem of incorrect weights for domain name searches due to frequent IP changes by CDN after a domain name is connected to CDN. By identifying whether an access IP belongs to a search engine, you can choose to directly pull the resource from the origin server, ensuring the stability of search engine weights.

Note:

- As search engine IPs are changed frequently, Tencent Cloud CDN can only guarantee that most but not all search engine IPs can be identified.
- The SEO configuration feature is available only when the connected domain name is an external origin. After this feature is enabled, if a domain name has multiple origin server addresses, the first one will be the default origin-pull address.
- This feature is not supported in regions outside the Chinese mainland currently. If the acceleration region of your domain name is outside the Chinese mainland, this feature cannot be enabled. If your domain name is configured for global acceleration, the SEO configuration will take effect only within Chinese mainland.

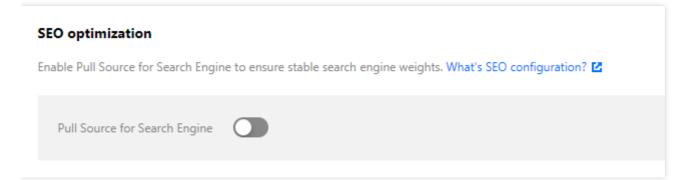
Directions

Viewing the configuration

Log in to CDN Console, select **Domain Management** on the sidebar, and click **Manage** on the right of a domain name to enter its configuration page. You will find the SEO configuration on the **Advanced Configuration** tab. It is



disabled by default:



Modifying the configuration

You can toggle the switch to enable or disable SEO configuration:

SEO optimization

Enable Pull Source for Search Engine to ensure stable search engine weights. What's SEO configuration? 🗹

Pull Source for Search Engine

Smart Compression Configuration

Last updated : 2021-12-20 12:20:05

Overview

With the aid of smart compression, Tencent Cloud CDN can compress the returned resources with Gzip or Brotli according to set rules, which effectively reduces the size of transferred content and costs.

Note:

- If your domain name is configured for global acceleration, the smart compression configuration will take effect globally. This configuration does not distinguish between requests from the Chinese mainland and from outside the Chinese mainland.
- The file type (content-type) and Brotli compression are currently not available in regions outside the Chinese mainland.

Directions

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, and click **Manage** on the right of a domain name to enter its configuration page. Open the **Advanced Configuration** tab to find the **Smart Compression** section. This configuration is enabled by default.

• After an acceleration domain name is connected, resources with sizes ranging from 256 bytes to 2 MB with file extensions .js, .html, .css, .xml, .json, .shtml, and .htm will be compressed with Gzip by default.



Auto Compression

Enable the smart compression service to save transmission traffic. What is smart compression?

| Auto Compression | Edit |
|--------------------|---------------------------------------|
| Compression object | .js;.html;.css;.xml;.json;.shtml;.htm |
| File Size | 256B ~ 2048KB |
| Compression method | Gzip |
| | |

Modifying the configuration

Click **Modify** to modify the compression rules:

| Auto Compression Configuration X | | | | | | | |
|----------------------------------|--|------------------|-----------------------------|--|--|--|--|
| File ext | .js;.html;.css;.xml;.json;.shtml;.h | | | | | | |
| | Please enter a file s html; .css | uffix, separated | by ";" for example: .jpg; . | | | | |
| File Size | 256 | Byte ▼ ~ | 2048 | | | | |
| | КВ 💌 | | | | | | |
| | Set a size range. File re being transferred | - | will be compressed befo | | | | |
| Compression method | Gzip Bro | otli (j | | | | | |
| | Save | Cancel | | | | | |

Configuration limitations

- Type: supports All Files, File Extension, and File Content-Type. It is set to File Extension by default.
- If **File Extension** is selected, the maximum content length is 200 characters.

- If File Content-Type is selected, the default content is as follows: text/html, text/xml, text/plain, text/css, text/javascript, application/json, application/javascript, application/x-javascript, application/rss+xml, application/xmltext, image/svg+xml, image/tiff
 You can edit the content as needed. Note that you can enter up to 100 groups of content separated with semicolons (;). Each group can have up to 50 characters.
- Some platforms are being upgraded and do not support the file type (content-type) and Brotli compression.

Note :

- The configuration can be modified when disabled, but will not be officially deployed until it is enabled.
- If Gzip and Brotli are both selected, the compressed files will be returned according to the request compression header.
- If Brotli is selected only and the request compression header does not support it, the original resources will be returned without being compressed.

Custom Error Page

Last updated : 2021-11-15 16:27:09

Feature Overview

You can configure the custom error page, and redirect requests with the specified status code to the specified URL.

Currently supported status codes are as follows:

- 4XX: 400, 403, 404, 405, 414, 416, and 451
- 5XX: 500, 501, 502, 503, and 504

Note:

- This feature may be unavailable on some platforms. We will complete the server upgrade as soon as possible.
- This feature is only for redirecting requests encountered status codes during origin-pull, but not applicable to requests with status codes returned by any access control features such as the UA blocklist/allowlist configuration.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and switch to the **Advanced Configuration** tab to find the **Custom Error Page Configuration** section.

The custom error page configuration is disabled by default.

| er it is configured, the request to w main name. What's custom error pa g | | eturned will be redirected to the specified target address. | The host of the target address should be the same as the cur |
|---|---|---|--|
| stom Error Page 🛛 The con | figuration below can be modified when it is disal | bled, but the configuration will not be deployed officially u | intil it is enabled. |
| Add Rule | | | |
| Status Code | Redirect | Destination URL | Operation |
| | | No data yet | |

Adding rules

You can click **Add Rule** to add custom error page rules as needed.

| Add Custom E | rror Page Rule | × |
|-----------------|---|---|
| Status Code | 400 💌 | |
| Redirect | O 301 O 302 | |
| Destination URL | | |
| | "http://" or "https://" is required; the host should be the same as th current domain name. | e |
| | OK Cancel | |

Configuration limitations

- Each status code can only have one unique rule.
- Redirect: 301 or 302.
- Destination URL: http:// or https:// is required.
- The content can contain up to 1,024 characters and Chinese characters are not supported.

POST Request Size Configuration

Last updated : 2021-07-06 11:58:58

Feature Overview

The maximum size of a Tencent Cloud CDN POST request (body) defaults to 32 MB, which can be adjusted as required by your business.

Configuration Guide

Viewing the configuration

Log in to the CDN console, select **Domain Management** on the left sidebar, click **Manage** on the right of a domain name to enter its configuration page, and open the **Advanced Configuration** tab to find the **POST Request Size Configuration** section. The limited request size can be configured as up to **200 MB**.

POST Request Size Configuration

The default maximum POST request size is 32 MB, and you can adjust it. What's POST request size configuration? 🗹

Maximum POST Request Size 32MB Edit

Note :

On some platforms, there is no size limit on POST requests, and the feature is not supported for some domain names.

Image Optimization

Last updated : 2022-06-17 15:27:16

Overview

When distributing mass images with Tencent Cloud CDN, you can enable image optimization. This feature can compress images that meet specified requirements into WebP, Guetzli, and TPG formats, while drastically reducing downstream traffic and costs.

Directions

Log in to the CDN console, select **Domain Management** on the left sidebar. Click **Manage** on the right of a domain name configured with a COS origin. On the page that appears, select **Image Optimization**.

- Only domain names that are configured with a COS V5 origin are supported.
- If the CI service is not yet activated before this feature is enabled, you can quickly complete the activation in the CDN console.
- If the CI service is already activated, you can use this feature directly.

Note:

Tencent Cloud CI provides you a secure, stable and efficient cloud data processing service. When images (Webp, Guetzli, TPG) are processed, charges for the CI service will be incurred. For more billing details, see Billing Overview.

WebP adaptation

When WebP adaptation is enabled, images that meet the following compression requirements will be processed and returned. If these requirements are not met, the original images will be returned.

- The HTTP Accept header contains image/webp .
- The image is in JPG, JPEG, BMP, GIF, or PNG format.

Note:

• The charges incurred are included in the billable item "Basic Image Processing" of your CI bill.

- The image to be processed should not be larger than 20 MB, with the width and height not exceeding 30,000 pixels and the total number of pixels not exceeding 100 million. The width and height of the output image should not exceed 9,999 pixels.
- For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 100 million pixels (GIF frame limit: 300).

Guetzli adaptation

The CI-launched Guetzli image compression feature is visually lossless. It compresses JPG images at a high ratio to reduce the downstream traffic and increase the download speed. By taking advantage of human beings' insensitivity toward specific color gamuts and details, Guetzli discards specific details to reduce download traffic by 35% to 50% without changing quality.

When Guetzli adaptation is enabled, images that meet the following compression requirements will be processed and returned.

- The HTTP Accept header contains image/guetzli .
- The image is in JPG or JPEG format.

Note:

- The charges incurred are included in the billable item "Guetzli Compression" of your CI bill.
- After you enable Guetzli, the original JPG image will be returned when you access the image for the first time, and Guetzli will compress the image asynchronously. If you request the image again after the compression is complete, the compressed image will be returned.
- Currently, Guetzli can process JPG images whose quality is greater than 70 and number of pixels is smaller than 4 million.

TPG adaptation

TPG adaption is a CI-launched advanced image compression feature. It converts images into TPG format with smaller image size, greatly reducing the download traffic and improving the page load speed.

When TPG adaption is enabled, images that meet the following compression requirements will be processed and returned.

- The HTTP Accept header contains image/tpg .
- The image is in JPG, JPEG, BMP, GIF, PNG, or WebP format.



Note:

The charges incurred are included in the billable item "Image Advanced Compression" of your CI bill.

Must-knows

After image optimization is enabled, the cache key of the request URL will change and conflict with the configured cache key rules. In this case, the cache key rules take higher priority.

For example, when image optimization is enabled for JPG files, the request URL

http://www.test.com/a.jpg?colour=red changes to http://www.test.com/a.jpgxxxxxx ?
colour=red , which conflicts with the configured cache key rule that ignores all parameters for all files. In this case,
the rule will be executed, and the request URL will eventually change to http://

/www.test.com/a.jpgxxxxxx .

Statistical Analysis Realtime Monitoring Panel Configuration

Last updated : 2020-01-14 10:07:03

The new **Instance Monitoring** page allows you to adjust the metrics panel as needed to view the data curves of desired metrics.

- 1. Log in to the CDN Console and select **Statistics** > **Realtime Monitoring** on the left sidebar to enter the management page.
- 2. Click the configuration icon on the right to enter the configuration page.

| Last 30 days | 2019-11-27 10: | 03:37 to 2019-11- | 27 16:03:36 | Data Comparisor | ı | | | | \$ |
|------------------|----------------|-------------------|-------------|--|---|----|---|-----|----|
| nced Filtering 🔻 | | | | | | | | | |
| | | | | | | | | | Ŧ |
| humm | hum | mpp | mm | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | m | mm | m | ~~1 | |
| | | I | | I | | | I | | |

3. Select data metrics to be displayed on the overview page as needed: Selected metrics will be displayed directly. If you un-select a metric, it will no longer be displayed by default.

You can customize the panel via real-time monitoring of Access Monitoring and Origin-Pull Monitoring



overview pages.

| Custo | om display module | × |
|-------|-------------------|---|
| Þ | - Usage | |
| Þ | ✓ Total Requests | |
| Þ | Status Code | |
| | OK Cancel | |

Data Comparison

Last updated : 2020-08-17 11:50:28

Tabs on the new **Real-Time Monitoring** page all support data curve comparison.

- 1. Log in to the CDN Console and select **Statistics** > **Real-Time Monitoring** on the left sidebar to enter the management page.
- 2. Query the data curve of a specified time period, click **Data Comparison**, and specify another time period to start data comparison.

| Access Monitoring | Origin-Pull Monito | oring | | | | | | | | | | | |
|-------------------|---------------------------|-------------------|-------------------|-----------------|-------------------|--------------------|--------------------|------------------|---------------|-----------|---|----|---|
| Y | You can set alarms in Clo | oud Monite | oring. When the : | pecified traffi | c/bandwidth and c | ther parameters ex | ceed the set value | you are notified | d via SMS/ema | il/intern | al message.Configure Alarms 🗹 | | × |
| ידט | TC+08:00 | • | Last 6 hours | Today | Last 7 days | Last 30 days | 2019-11-26 10:4 | 2:12 to 2019-11 | -26 16:42:11 | | Data Comparison | | ₽ |
| N | Mainland China | Overseas | All regions | | ▼ Advan | ced Filtering 🔻 | | | | | | | |
| | Usage Bandw Learn N | idth (Mbj Aore | ps) 20 - | hm | mmm | Mum | Mmmm | mm-ml | www | n Mm | Mar | ~M | Ŧ |

To facilitate your use, the system will automatically fill the start or end time accordingly after you specify the end or start time, ensuring the two time periods for comparison are of the same length.

| Realtime Monitoring | 9 | | | | | | | | | | | | | |
|---------------------|---------------------------|---------------|-------------------|-----------------|------------------|--------------------|---|--|----------------|------------|------------------------|----------------|---------|----|
| Access Monitoring | Origin-Pull Monitor | ng | | | | | | | | | | | | |
| | You can set alarms in Clo | d Moni | itoring. When the | specified traff | ic/bandwidth and | other parameters e | xceed the set value, you are notified via SMS/ema | ail/intern | nal message.Co | nfigure Al | arms 🖸 | | | × |
| | UTC+08:00 | Ŧ | Last 6 hours | Today | Last 7 days | Last 30 days | 2019-11-24 10:42:12 to 2019-11-24 16:42:11 | ÷ | Comparison | 2019-11 | -26 10:42:12 to 2019-1 | 11-26 16:42:11 | × | \$ |
| | Mainland China O | erseas | All regions | | ▼ Advar | nced Filtering 🔻 | | | | From | 2019-11-26 | 10:42:12 | | |
| | Usage Bandwid | + 5 7M | bps) 40 | | | | | | | to | 2019-11-26 | 16:42:11 | | |
| | Usage Bandwin Learn M | | ops) 40 | | ۸. | 0.0- | | | | | ОК | Cancel | | * |
| | | | | Naco | Mythese | Maria | nother marker and the second | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | man and a comp | | | | Officia | |

Access Monitoring

Last updated : 2020-11-23 17:43:35

This document describes the new version of the console. It provides more comprehensive and detailed statistics and is used as the basis for billing. We recommend you use the new version.

Metrics Descriptions

Metrics on the overview page

Log in to the CDN Console and select Statistics > Realtime Monitoring on the left sidebar to enter the management page. The Access Monitoring tab is displayed by default. The monitoring curves of all domain names with a 1-minute granularity in the last 6 hours will be returned, including the following metrics:

- Bandwidth: Calculated by dividing the total traffic in one minute by 60 seconds.
- Traffic hit rate: (Total downstream traffic origin-pull traffic) / total downstream traffic in one minute.
- Percentage of request status code: Percentage chart of status codes (2XX/3XX/4XX/5XX) returned within the selected time period.
- 2XX request status codes: Status codes generated by 2XX status code monitoring will be counted.
- 3XX request status codes: Status codes generated by 3XX status code monitoring will be counted.
- 4XX request status codes: Status codes generated by 4XX status code monitoring will be counted.
- 5XX request status codes: Status codes generated by 5XX status code monitoring will be counted.

Data on the details page

Click View Details under each metric to enter the metric details page.

| Realtime Monitoring | I | | | | | | | | | | |
|---------------------|--------------------|--------------|---------------------|-------------------|---------------------------------|--------------------|----------------------------|-----------------------------|------------|----------------------------|----|
| Access Monitoring | Origin-Pull M | lonitoring | | | | | | | | | |
| | You can set alarms | s in Cloud M | onitoring. When the | specified traffic | /bandwidth and ot | ner parameters exc | eed the set value, you are | e notified via SMS/email/ir | internal m | essage. Configure Alarms 🛃 | × |
| | UTC+08:00 | Ŧ | Last 6 hours | Today | Last 7 days | Last 30 days | 2019-11-27 09:57:50 t | :0 2019-11-27 15:57:49 | ÷ | Data Comparison | \$ |
| | Mainland China | Overse | as All regions | | ▼ Advar | ced Filtering 💌 | | | | | |
| | | andwidth (i | Mbps) 40 | | 2019-11-27 10:5 Bandwidth: 1 | 1.43Mbps | mannah | 1 1 | ~~~ | | Ŧ |

You can also switch to another metric by selecting it from the drop-down list on the top-left corner of the details page.



| ← Acces | ss Monitoring Detail | bandwidth 🔻 | | | | | | | | |
|---------|----------------------|-------------------|-------------|--------------|------------------|------------|-----------------|-----------------|---------------|--|
| | UTC+08:00 | ▼ Today | Last 7 days | Last 30 days | 2019-11-27 to 20 | 19-11-27 📋 | Data Comparison | | | |
| | Mainland China | Overseas All | egions | ▼ Advan | ced Filtering 👻 | | | | | |
| | Temporal granu | 1 minute 5 minute | s 1 hour | 1 day | | | | | | |
| | Project | All Projects | ▼ Domains | All domains | Ŧ | Carrier | All Carriers | ▼ HTTP Protocol | All protocols | |
| | Transfer Protoc | All protocols | Ŧ | | | | | | | |
| | | | | | | | | | | |

On the details page, you can view the following metric data:

- Bandwidth: Total peak bandwidth, real-time bandwidth curve, and bandwidth rankings of domain names (from large to small).
- Traffic: Total traffic, real-time traffic curve, traffic rankings of domain names (from high to low), and traffic rankings of URLs (from high to low).
- Traffic hit rate: Traffic hit rate, real-time traffic hit rate curve, and traffic hit rate rankings of domain names (from high to low).
- Requests: Total number of requests, curve of real-time request count, request count rankings of domain names (from high to low), and request count rankings of URLs (from high to low)
- Status code percentage: Pie chart of 2XX, 3XX, 4XX, and 5XX status codes and their counts and percentages.
- 2XX status codes: Real-time monitoring curve of 2XX status codes and their sub-status codes and 2XX status code rankings of domain names (from high to low).
- 3XX status codes: Real-time monitoring curve of 3XX status codes and their sub-status codes and 3XX status code rankings of domain names (from high to low).
- 4XX status codes: Real-time monitoring curve of 4XX status codes and their sub-status codes and 4XX status code rankings of domain names (from high to low).
- 5XX status codes: Real-time monitoring curve of 5XX status codes and their sub-status codes and 5XX status code rankings of domain names (from high to low).

Granularity Description

Granularity on the overview page

The monitoring page provides options to display data curves at a 1-minute, 5-minute, 1-hour, or 1-day granularity. The minimum time granularity can be displayed varies by the selected time period.

- Time period ≤ 6 hours: The minimum time granularity is 1 minute. The latency for displaying the 1-minute curve is about 5–10 minutes.
- 6 hours < time period ≤ 24 hours: The minimum time granularity is 5 minutes. The latency for displaying 5-minute curve is about 5–10 minutes.

- 24 hours < time period \leq 31 days: The minimum time granularity is 1 hour.
- Time period > 31 days: The minimum time granularity is 1 day.

Granularity on the details page

The time granularity options on the metric details page are as follows:

- Time period ≤ 1 day: The minimum time granularity is 1 minute. The latency for displaying the 1-minute curve is about 5–10 minutes.
- 1 day < time period \leq 31 days: The minimum time granularity can be 5 minutes, 1 hour, or 1 day.
- Time period > 31 days: The minimum time granularity is 1 day.

A Note:

- Currently, data query at 1-minute statistics granularity is only supported in mainland China. The minimum granularity for historical data query is 5 minutes.
- The maximum time period for query is 90 days.

Aggregation Description

The method for aggregating 1-minute data into 5-minute, 1-hour, or 1-day data varies by data metric.

- Bandwidth: The smallest granularity provided by CDN for monitoring bandwidth data is 1 minute. Based on industry standard, fees are generally billed by 5-minute granularity, which is calculated by taking the average of 1-minute data values. Therefore, the bandwidth data at a 1-hour or 1-day granularity can be calculated based on the maximum 5-minute bandwidth value.
- Traffic: The traffic data at a 5-minute, 1-hour, or 1-day granularity is obtained by aggregating 1-minute traffic data.
- Traffic hit rate: Based on the selected granularity, the traffic hit rate is calculated by using the formula "(total downstream traffic origin-pull traffic) / total downstream traffic" rather than taking the average of 1-minute data values.
- Number of requests and status codes: Data at a 5-minute, 1-hour, or 1-day granularity is obtained by aggregating 1-minute data.

Data source description

Billable data and log data

• The data collected based on the downstream bytes in the log of an acceleration domain name is data at the application layer, while traffic generated during actual data transfers over the network is 5–15% more than application-layer data.

- Consumption by TCP/IP headers: In TCP/IP-based HTTP requests, each packet has a maximum size of 1,500 bytes, including TCP and IP headers of 40 bytes, which generate traffic during transfer but cannot be counted by the application layer. The overhead of this part is around 3%.
- TCP retransmission: During normal data transfer over the network, around 3–10% packets are lost on the internet, and the server will re-transmit the lost parts. This traffic cannot be counted by the application layer, which accounts for 3–7% of the total traffic.
- As an industry standard, the billable data is the sum of the application-layer data and the above-mentioned overheads. Tencent Cloud CDN takes 10% as the overheads proportion, so the monitored billable traffic/bandwidth is around 110% of the logged data.
- Except for traffic and bandwidth, all other metrics are collected at the application layer. Due to network fluctuation, statistics displayed on the monitoring page are slightly different from those in the log, as data loss may occur during log pulling from nodes or data reporting by servers.

Data source description

- If statistical district or ISP option is not selected as a filter, all queried data will be billable data.
- If statistical district or ISP option is selected as a filter, the data needs to be matched for calculation by client IP in the access log, and all queried data will be log data.

Filter Description

- Currently, query by both **statistical district** and **ISP** is not supported. You can only query all ISPs by district or query all districts by ISP.
- Currently, origin-pull monitoring does not support filtering by statistical area or ISP.
- Currently, origin-pull monitoring does not support filtering by HTTPS/HTTP request.

Origin-Pull Monitoring

Last updated : 2021-08-11 11:37:06

Note:

Origin-pull data query is not available for ECDN domain names now.

Metric Description

Metrics on the overview page

Log in to the CDN Console and select Statistics > Realtime Monitoring on the left sidebar to enter the management page. The Access Monitoring tab is displayed by default. You can click Origin-Pull Monitoring on the right to enter the origin-pull monitoring metrics page. The monitoring curves of all domain names with a 1-minute granularity in the last 6 hours will be returned, including the following metrics:

- Origin-pull bandwidth: Calculated by dividing the total origin-pull traffic in one minute by 60 seconds.
- Origin-pull traffic: Total origin-pull traffic in the cache node at the last layer.
- Origin-pull requests: Total number of origin-pull requests in the cache node at the last layer.
- Origin-pull failure rate: Percentage of failing origin-pull requests out of all origin-pull requests.
- Percentage of origin-pull status code: Percentage charts of status codes (2XX/3XX/4XX/5XX) returned for originpull requests within the selected time period.
- 2XX origin-pull status codes: Status codes generated by 2XX origin-pull status code monitoring will be counted.
- 3XX origin-pull status codes: Status codes generated by 3XX origin-pull status code monitoring will be counted.
- 4XX origin-pull status codes: Status codes generated by 4XX origin-pull status code monitoring will be counted.
- 5XX origin-pull status codes: Status codes generated by 5XX origin-pull status code monitoring will be counted.

The following conditions will be counted as failing origin-pull requests:

- Timeout in receiving origin-pull data.
- Timeout in sending origin-pull request.
- Timeout in establishing a TCP connection for origin-pull.
- The origin server actively closes the connection.
- HTTP protocol compatibility error of the origin server.

Data on the details page



Click Learn More under each metric to enter the metric details page.

| Realtime Monitorin | ng | |
|--------------------|---|---|
| Access Monitoring | Origin-Pull Monitoring | |
| | UTC-08:00 Last 6 hours Today Last 7 days Last 30 days 2019-11-26 10:00:43 to 2019-11-26 16:00:42 Data Comparison Mainland China Overseas Advanced Filtering * | ¢ |
| | Usage Origin-pull 8 – bandwidth (Mbps) Learn More 0 – 1 1 1 1 1 1 1 1 | Ŧ |

You can also switch to another metric by selecting it from the drop-down list on the top-left corner of the details page.

| ÷ | Origin-Pull M | onitoring Detail | Origin-Pull bandwidth 🔻 |
|---|---------------|----------------------|---|
| | | UTC+08:00 | ▼ Today Last 7 days Last 30 days 2019-11-26 to 2019-11-26 🖾 Data Comparison |
| | | Mainland China | Overseas Advanced Filtering 💌 |
| | | Temporal granularity | 1 minute 5 minutes 1 hour 1 day |
| | | Project All Project | ts Domains All domains |

Granularity Description

Granularity on the overview page

The monitoring page provides options to display data curves at a 1-minute, 5-minute, 1-hour, or 1-day granularity. The minimum time granularity can be displayed varies by the selected time period.

- Time period ≤ 6 hours: The minimum time granularity is 1 minute. The latency for displaying the 1-minute curve is about 3 minutes.
- 6 hours < time period ≤ 24 hours: The minimum time granularity is 5 minutes. The latency for displaying the 5minute curve is about 5–10 minutes.
- 24 hours < time period \leq 31 days: The minimum time granularity is 1 hour.
- Time period > 31 days: The minimum time granularity is 1 day.

Granularity on the details page

The time granularity options on the metric details page are as follows:

 Time period ≤ 24 hours: The minimum time granularity is 1 minute. The latency for displaying the 1-minute curve is about 3 minutes.

- 24 hours < time period \leq 31 days: The minimum time granularity can be 5 minutes, 1 hour, or 1 day.
- Time period > 31 days: The minimum time granularity is 1 day.

Note:

- The data collected at a 1-minute granularity can be queried only in the new version of the console. For historical data, the minimum granularity for query is 5 minutes.
- The maximum time period for query is 90 days.

Aggregation Description

The method for aggregating 1-minute data into 5-minute, 1-hour, or 1-day data varies by data metric.

- Origin-pull bandwidth: The smallest granularity provided by CDN for monitoring bandwidth data is 1 minute. Based on industry standard, fees are generally billed by 5-minute granularity, which is calculated by taking the average of 1-minute data values. Therefore, the bandwidth data at a 1-hour or 1-day granularity can be calculated based on the maximum 5-minute bandwidth value.
- Origin-pull traffic: The traffic data at a 5-minute, 1-hour, or 1-day granularity is obtained by aggregating 1-minute traffic data.
- Origin-pull requests: The request count at a 5-minute, 1-hour, or 1-day granularity is obtained by aggregating 1minute request counts.
- Origin-pull failure rate: Calculated by dividing the total number of origin-pull failures by the total number of origin-pull requests based on the selected time granularity.
- Origin-pull status codes: The status code data at a 5-minute, 1-hour, or 1-day granularity is obtained by aggregating 1-minute status code data.

Status codes description

Last updated : 2023-03-10 14:25:21

The table below explains the status codes of CDN.

| Status Code | Meaning | Suggestion |
|----------------|---|--|
| 0 | The request ends before the status code is obtained | Check whether the client disconnects the request early, or whether the origin-pull fails. |
| 400 | HTTP request syntax error The server cannot parse the request | Check whether the request syntax is correct. |
| 403 | Request is rejected | Check whether the request is blocked by access controls such as referer blocklist/allowlist, IP blocklist/allowlist, and authentication. |
| 404 | Server cannot return correct information | Check whether the origin server is running normally, and whether the origin server information or origin domain configurations are changed. For more information, see the topic about how to troubleshoot the status code 404 that is returned when a CDN domain name is accessed. |
| 413 | Content length of the POST request exceeds the limit | Check the content size of the POST request from the client (the maximum size is 32 MB by default). |
| 414 | URL length exceeds the limit | The maximum URL size is 2 KB by default. |
| 423 | Looping request | Check the 301/302 configuration, HTTPS origin-pull, and rewriting method of the origin server. |
| 499 | The client closes the connection | Check the client status and timeout configuration. |
| 502 | Gateway Error | Check whether the business origin server is normal. |
| 503 | COS frequency control is triggered | Check the cache configuration or whether the COS origin server returns no-cache/no-store. |
| 504 | Gateway timeout | Please contact the official website. |
| 509 | Blocked due to CC attack | Contact Us or submit a ticket to unblock it. |

| Status Code | Meaning | Suggestion |
|----------------|--|--|
| 514 | IP access frequency exceeds the limit | Check the IP access frequency control configuration in the CDN Console. |
| 524 | Access traffic of the platform is overloaded | Business request surges may trigger a traffic overload on the platform. Estimate and report the business volume to Tencent Cloud. If you have any questions, please contact after-sales service. |
| 531 | Error resolving the origin- pull domain name in the HTTP request | Check the domain name resolution configuration of the origin server. |
| 532 | Failed to establish a connection with the origin server in the HTTPS request | Check the port 443 status of the origin server, certificate configuration, or availability of the origin server. |
| 533 | Origin-pull connection timeout in the HTTPS request | Check the port 443 status of the origin server, certificate configuration, or availability of the origin server. |
| 537 | Origin server data reception timeout in the HTTPS request | Check the stability of the business origin server. |
| 538 | SSL handshake of HTTPS request failed | Check the compatibility between the origin server protocol and algorithm. |
| 539 | Certificate validation of HTTPS request failed | Check whether the certificate of the origin server is correctly configured (validity period and completeness of the certificate chain). |
| 540 | Certificate domain name validation of HTTPS request failed | Check whether the certificate of the origin server is correctly configured. |
| 562 | Failed to establish a connection in the HTTPS request | Contact Us with the X-NWS-LOG-UUID information or submit a ticket for troubleshooting. |
| 563 | Connection timeout in the HTTPS request | Contact Us with the X-NWS-LOG-UUID information or submit a ticket for troubleshooting. |

| Status Code | Meaning | Suggestion |
|----------------|---|--|
| 564 | Origin-pull in the HTTPS request failed | If HTTP is configured as the origin-pull protocol, check the load and bandwidth utilization or access limit of the origin server. If the protocol-follow method is configured, check the port 443 status and certificate configuration of the origin server. If no error is found in the origin server, contact us with the X-NWS- LOG-UUID information or submit a ticket for troubleshooting. |
| 567 | Response times out when the node receives files | Contact Us with the X-NWS-LOG-UUID information or submit a ticket for troubleshooting. |

The table below explains the HTTP response status codes of the webpage server.

| Status code | Meaning |
|-------------|--|
| 100 | The server received the request headers, and the client should proceed to send the request body (in the case of a request for which a body needs to be sent; for example, a POST request). The client should ignore the response if the request is already complete. The server must send a final response to the client after the request is complete. To have the server check the request headers, the client must send <code>Expect: 100-continue</code> as a header in its initial request and receive a <code>100 Continue</code> status code in the response before sending the body. The status code 417 Expectation Failed indicates that the client should not continue with the request. |
| 101 | The server understood the request of the client and will notify the client by using the Upgrade header to use a different protocol to finish the request. After sending the last blank line of this response, the server will switch to the protocol that is defined in the Upgrade header. The server should switch protocols only if it is advantageous to do so. For example, switching to a newer version of HTTP, such as HTTP/2, has advantages over older versions, or switching to a real-time and synchronous protocol, such as WebSocket, helps transfer resources that use related features. |
| 102 | A WebDAV request may contain many sub-requests that involve file operations, requiring a long time to complete the request. This status code indicates that the server has received and is processing the request, but no response is available yet. This prevents the client from timing out and assuming that the request was lost. |
| 103 | This status code is used to return some response headers before the final HTTP message. |
| 200 | The request has succeeded, and the response headers or body expected by the request will be returned with this response. If the client made a GET request, the response will contain an entity corresponding to the requested resource. If the client made a POST request, the response will contain an entity that describes or contains the result of the action. |



| Status code | Meaning |
|-------------|--|
| 201 | The request has been fulfilled by the server, resulting in the creation of a new resource. The URI of the resource has been returned with the Location header. If the required resource cannot be created in a timely manner, the 202 Accepted status code should be returned. |
| 202 | The server has accepted the request but has not processed it. The request might or might not be eventually acted upon, and may be disallowed when processing occurs. |
| 203 | The server is a transforming proxy (such as a web accelerator) that received a 200 OK from its origin, but is returning a modified version of the response of the origin. |
| 204 | The server successfully processed the request of the client and is not returning any content. In the captive portal feature, when a Wi-Fi device is connected to a Wi-Fi access point that requires web authentication, if the device accesses a website that can generate an HTTP 204 response and receives an HTTP 204 response normally, web authentication is not required. Otherwise, the authentication interface will pop up on the web browser for the user to complete authentication and login. |
| 205 | The server successfully processed the request of the client and is not returning any content. Unlike the 204 response, this response requires the client to reset the document view. |
| 206 | The server successfully processed part of the GET request. HTTP download tools, such as FlashGet or Thunder, use this type of response to implement checkpoint restart or split a large file into multiple fragments for simultaneous download. |
| 207 | The message body that follows is an XML message and may contain a number of separate response codes, depending on how many sub-requests were made. |
| 208 | The members of a DAV binding have already been enumerated in a preceding part of the multi-status response, and will not be included again. |
| 226 | The server has fulfilled the request of the client for a given resource, and the response is a representation of the result of one or more instance manipulations applied to the current instance. |
| 300 | Multiple options are available for the requested resource, each with its own specific address and browser-driven negotiation information. The user or browser can choose a preferred address to redirect itself. |
| 301 | This status code indicates that the requested resource has been permanently moved to the new URI contained in the response. A browser automatically redirects to the new URL. All future requests should be directed to the new URI. |
| 302 | This status code is similar to the status code 301, but it indicates that the requested resource has been temporarily moved and the client should still use the original URI. |

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| Status code | Meaning |
|-------------|--|
| 303 | The response to the request can be found under another URI. When the response is received in response to a POST, PUT, or DELETE request, the client should assume that the server has received the data and should issue a new GET request to the given URI. |
| 304 | The requested resource has not been modified since the version that is specified by the If- Modified-Since or If-None-Match request header. In the case where this status code is returned, the resource does not need to be retransmitted because the client still has a previously downloaded copy. |
| 305 | The requested resource can be accessed only through the specified proxy. The Location field contains the URI information of the specified proxy. The receiver needs to issue a new request to access the requested resource through the proxy. |
| 306 | This status code is no longer used in the latest version of HTTP specifications. It originally meant that subsequent requests should use the specified proxy. |
| 307 | This status code indicates that the request should be repeated by using another URI and that future requests should still use the original URI. This is different from how the status code 302 was historically implemented, in that the request method cannot be changed when the original request is reissued. For example, a POST request should be repeated by using another POST request. |
| 308 | The request and all future requests should be repeated by using another URI. Status codes 307 and 308 are similar to the behaviors of status codes 302 and 301, but 307 and 308 do not allow the HTTP method to be changed. For example, submitting a form to a permanently redirected resource may continue smoothly. |
| 401 | This status code is similar to the status code 403 except that it is specifically used when required authentication has failed or has not yet been provided by the client. |
| 405 | The request method specified in the request-line cannot be used to request the resource. The server must generate an Allow header field in a 405 status code response. The field must contain a list of methods that the resource currently supports. |
| 406 | The content property of the requested resource does not meet the conditions in the request headers. Therefore, no response entity can be generated. The request is not acceptable. |
| 407 | This status code is similar to the status code 401, but it indicates that the client must authenticate itself with the proxy. |
| 408 | The server timed out while waiting for the request from the client. According to HTTP specifications: "The client did not produce a request within the time that the server was prepared to wait. The client MAY repeat the request without modifications at any later time." |

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| Status code | Meaning |
|-------------|--|
| 409 | This status code indicates that the request could not be processed because of conflict in the current state of the resource, such as an edit conflict between multiple simultaneous updates. |
| 410 | This status code indicates that the resource requested was previously in use but is no longer available and will not be available again. This should be used when a resource has been intentionally removed and the resource should be purged. Upon receiving a status code 410, the client should not request the resource in the future. Most servers use the status code 404 instead of this status code. |
| 411 | The server refuses to accept the request without a defined Content-Length header. The client can re-submit the request after adding a valid Content-Length header that describes the length of the message body to the request. |
| 412 | One or more preconditions given in the request header fields evaluated to false when verified on the server. This status code allows the client to place preconditions on the request metadata in the request header fields when it requests for a resource. This prevents the request method from being applied to resources that are not requested by the client. |
| 415 | The Internet media type submitted in the request for the resource by using the current request method is not supported by the server. As a result, the server refuses the request. For example, the client uploads an image in the SVG format, but the server requires images to be uploaded in the JPG format. |
| 416 | The client asked for a portion of the file, but the server cannot supply that portion. For example, this status code is returned if the client asked for a portion of the file that lies beyond the end of the file. |
| 417 | The server cannot meet the expectation given in the Expect header of the request. |
| 500 | This is a generic error message returned to the client when the server encounters an unexpected condition that prevents it from fulfilling the request. No specific error information is provided. |
| 501 | The server does not support the functionality required to fulfill the request. This is the appropriate response when the server does not recognize the request method and is not capable of supporting it for any resource. |
| 505 | The server does not support or refuses to support the HTTP version used in the request. The server is indicating that it is unable or unwilling to complete the request by using the same version as the client. The response should contain an entity that describes the reason why that version is not supported and the other protocols that are supported by the server. |
| 508 | The server encountered an infinite loop while processing the request. |
| 510 | The policy for accessing the resource has not been met in the request. |

Data Analysis

Last updated : 2021-11-24 14:55:24

You can check your end-user distribution and resource usage on the Data Analysis page.

Log in to the CDN console and select Statistics > Data Analysis on the left sidebar to access the Data Analysis page.

- The maximum time period for query is 31 days. Historical data is retained for 90 days.
- You can query historical data generated in the last three months.

Note:

ECDN does not support displaying the number of unique IP access requests and user access region distribution currently.

Data Overview

Data overview in your specified report dimension is displayed.

The data overview varies according to the billing method.

For bill-by-traffic, total traffic, average traffic hit rate and total requests are displayed.

For bill-by-bandwidth, peak bandwidth, peak origin-pull bandwidth, and total requests are displayed.

User Access District Distribution

The user access district distribution is displayed in your specified report dimension. Based on the source client IP, the user access district can be determined, and displayed in a map or list, allowing you to view the district distribution of your users. You can view statistics of provinces in the Chinese mainland and regions outside the Chinese mainland.

Traffic

Traffic curve in your specified report dimension is displayed. You can choose to view the curve of billed traffic or originpull traffic.

Bandwidth

Bandwidth curve in your specified report dimension is displayed. You can choose to view the curve of billable bandwidth or origin-pull bandwidth. The peak bandwidth curve is supported.

Requests

Total request curve in your specified report dimension is displayed.

Error Codes

Numbers and proportions of error codes in your specified report dimension are displayed.

TOP10 URLs

The top 10 URLs in your specified report dimension are displayed. You can sort them by usage or total requests.

TOP 10 Projects

The top 10 projects in your specified report dimension are displayed.

TOP 10 Domain Names

The top 10 domain names in your specified report dimension are displayed.

Unique IP Access Requests

The unique IP access requests in the specified time period are counted by deduplicating the access client IPs in the log:

If the time range is less than or equal to one day, a deduplicated IP curve with a 5-minute granularity will be provided. Domain name statistics are counted by deduplicating the active quantity in a full day. If there are multiple domain names, projects or accounts, the statistics are counted by accumulating the daily active quantity of each one with a 5minute granularity.



Note:

Only data for the last 30 days can be queried.

User ISP Distribution

Based on the source client IP, the user ISP can be determined and displayed in a pie chart or list, allowing you to view the ISP distribution of your users.

FAQs about Statistical Analysis

Last updated : 2020-08-28 09:52:10

How are the bandwidth statistics in access monitoring collected?

Each CDN node collects traffic data in real time and reports it to the computing center, which aggregates the data into total traffic data and displays the bandwidth statistics by dividing the total traffic by the duration of use. **Example:**

- If the total traffic generated in a minute is 6 MB, then the corresponding bandwidth is $(6 \times 8) / 60 = 0.8$ Mbps.
- As the usage for bill-by-bandwidth is calculated based on the statistics at a 5-minute granularity, the corresponding bandwidth value is total traffic in 5 minutes / 300 seconds.

Why is the traffic in the monitoring information different from that in the log?

The traffic counted based on the downstream bytes in the log of an accelerated domain name is limited to the data at the application layer, while the traffic generated by actual data transfers over the network is around 5–15% more than application-layer traffic.

- Consumption by TCP/IP headers: in TCP/IP-based HTTP requests, each packet has a maximum size of 1,500 bytes and includes TCP and IP headers of 40 bytes, which generate traffic during transfer but cannot be counted by the application layer. The overhead of this part is around 3%.
- TCP retransmission: during normal data transfer over the network, around 3–10% of packets are lost on the internet and retransmitted by the server. This type of traffic cannot be counted by the application layer, which accounts for 3-7% of the total traffic.

As an industry standard, the billable traffic is the sum of the application-layer traffic and the overheads described above. Tencent Cloud CDN takes 10% as the overheads proportion, so the monitored traffic is around 110% of the logged traffic.

How do I calculate the traffic hit rate?

By default, CDN enables L2 cache (edge layer and intermediate layer). As long as a request hits either layer for response, it will be counted as a CDN node hit.

Traffic hit rate = (total downstream traffic - origin-pull traffic) / total downstream traffic.

How do I fix the problem of low traffic hit rate?

- Check whether the cache is purged: cache purge clears the specified content on the node, leading to a temporarily low traffic hit rate.
- Check whether new resources have been put onto the origin server: high numbers of new resources may cause origin-pulls by CDN nodes, leading to a low traffic hit rate.

- Check whether the origin server works properly: if it is malfunctioning with multiple 4XX or 5XX errors, the traffic hit rate will be affected.
- Check whether the cache expiration policy is correctly configured: check the "Cache Rules" section on the Cache Configuration tab in the console. The cache expiration policies are displayed in ascending order by priority, i.e., a policy takes precedence over the one above it.
- Check whether Range GETs is enabled: check the "Range GETs Configuration" section on the Origin Configuration tab in the console. If it is disabled, files will be pulled in their entirety instead of multiple parts as requested during origin-pull, which increases the origin-pull traffic and lowers the hit rate.
- Check whether Ignore Query String is enabled: check the "Ignore Query String" section on the Access Control tab in the console. If it is disabled, caching will be performed based on the full path. In this case, if the same resource is requested by different parameters, it cannot be matched and will be cached multiple times, lowering the traffic hit rate.

Do status code statistics include all status codes?

Yes. In the new version of CDN statistical analysis, monitoring curves are drawn for all status codes generated by origin servers, making it easier for you to troubleshoot.

How are district and ISP statistics calculated?

The district and ISP statistics are calculated based on the client IPs in the access log. As the calculation is completed based on the log, the simply accumulated billable data differs from the billable data when "all districts" or "all ISPs" is selected. For more information, please see question #2 above.

How is CDN origin-pull traffic generated?

CDN origin-pull traffic is generated during the following three situations:

- 1. The requested resource is not cached on the CDN node and is pulled from the origin server.
- 2. The manually purged origin server is synced with the node.
- 3. The origin server is automatically purged.

What should I do if my CDN traffic has an exception or is under DDoS or CC attacks?

If you believe your business traffic is unusually high, you can download logs to check your business access conditions and set access restrictions accordingly. CDN does not know your business logic, so it will not restrict access requests by default. Therefore, you need to configure the restrictions based on your business conditions. For more information, please see Log Download.

To avoid malicious requests or CC/DDoS attacks to your website, we strongly recommend you complete the following configurations:

- 1. Hotlink protection configuration: you can control the access to your business resources. By setting an access control policy on the value of the referer field in the HTTP request header, you can restrict the access source to prevent hotlinking by malicious users. For more information, please see Hotlink Protection Configuration.
- IP blocklist/allowlist configuration: you can create filtering policies for source IPs of user requests based on your business needs, helping prevent hotlinking and attacks from malicious IPs. For more information, please see IP Blocklist/Allowlist Configuration.
- 3. IP access limit configuration: you can defend against CC attacks by limiting the number of access requests per second to a node allowed for a client IP. After the configuration is enabled, a 514 error will be returned for requests that exceed the QPS limit. Setting a lower frequency limit may affect the usage of your business by normal high-frequency users. Therefore, please set the threshold according to your actual business conditions and usage. For more information, please see IP Access Limit Configuration.
- 4. Bandwidth cap configuration: you can configure a bandwidth cap for a domain name. When the bandwidth consumed by the domain name exceeds this cap within a statistical cycle (5 minutes), all access requests will be forwarded to the origin server or the CDN service will be disabled depending on your configuration (in both cases, a 404 error will be returned for all access requests). For more information, please see Bandwidth Cap Configuration.

Is there a delay in using APIs to query data? How long is it?

There is a certain delay in using APIs to query data. Queries of real-time data such as access data and billing data have a delay of around 5–10 minutes, while queries of analytical data such as rankings will have delays of approximately half an hour. The data is calibrated on the backend at around 3 am Beijing Time.

Purge and Prefetch Purge Cache

Last updated : 2022-04-26 11:44:47

Overview

CDN is capable of configuring basic cache. Cache validity can be configured according to rules such as specified service types, directories, and specific URLs to regularly purge resources cached on nodes, pull the latest resources from the origin server, and cache them again.

In addition, CDN can purge cache for specified URLs or directories in batches:

- Purge URL: this deletes the cache of the corresponding resources on all CDN nodes.
- Purge directory: if you select **Purge updated resources**, when an end user accesses a resource under the corresponding directory, the Last-Modify information of the resource will be pulled from the origin server. If it is the same as that of the cached resource, the cached resource will be directly returned; otherwise, the updated resource will be pulled from the origin server and cached again. If you select **Purge all resources**, when the user accesses a resource under the corresponding directory, the latest version of the resource will be directly pulled from the origin server and cached again.

Note :

After a purge is successfully executed, the corresponding resource on the node will not have a valid cache. When the user initiates an access request again, the node will pull the required resource from the origin server and cache it on the node. If you submit a large number of purge tasks, many caches will be cleared, resulting in a surge in origin-pull requests and high pressure on the origin server.

Application Scenarios

New resource releases

When a resource is overwritten by a new resource with the same name on the origin server, you can submit a request to purge the URL/directory and clear all caches so users can directly access the latest version of the resource. This will prevent users from accessing the legacy version of the resource cached on the node.

Illegal resource cleanup

When illegal resources (such as resources related to pornography, drug, or gambling) are found on your origin server, they may still be accessible even after you delete them on the origin server because of node cache. To protect your network environment security, you can delete the cached resources through URL purge.

Operation Guide

Log in to the CDN console, click **Purge and Prefetch** on the left sidebar, and submit a **Purge URL** or **Purge Directory** task:

- CDN and ECDN URLs/directories can be purged together.
- Task can be submitted by direct input or TXT file upload.

Content specifications

Check whether the submitted content meets the following specifications:

- URLs must contain a protocol identifier "http://" or "https://", such as http://www.test.com/test.html, and should be entered one per line.
- Do not submit a domain name that is disabled, locked, or not connected to the current account.
- If you submit tasks by file upload, make sure that the file is in .txt format and doesn't exceed 10 MB in size.
- URLs in the format of "http://*.test.com/" cannot be submitted. Even if you connect a wildcard domain name to CDN, you need to submit the corresponding subdomain names.
- Wildcards are not allowed in URLs to purge.
- For a URL with Chinese characters, enable "URL Encode" to encode the Chinese characters.

Submission limit

• URL purge:

Up to 10,000 URLs can be purged per day for each account. For users who use CDN service outside the Chinese mainland, up to 10,000 global URLs can be purged per day, which is independent of the URL purge quota for the Chinese mainland.

- Up to 1,000 URLs can be submitted at a time by direct input.
- There is no limit on the number of URLs that are submitted by file upload, but the submissions will be deducted from your daily quota.

Note :

When you are running out of daily purge quota, you can increase it on your own in the Tencent Cloud CDN console.

- The new quota will take effect immediately. The page will be refreshed automatically. You don't need to click the refresh button frequently.
- Each quota can only be increased once a day.
- Each quota is increased independently for each region.

• Directory purge:

Up to 100 directories can be purged per day for each account. For users who use CDN service outside the Chinese mainland, up to 100 global directories can be purged per day, which is independent of the directory purge quota for the Chinese mainland.

- Up to 20 directories can be submitted at a time by direct input.
- There is no limit on the number of URLs that are submitted by file upload, but the submissions will be deducted from your daily quota.

By default, URLs will be purged by acceleration regions of domain names in the URLs. If the domain names are accelerated globally, quotas for regions both in and outside the Chinese mainland will be consumed.

To query your operation records, please see History.

Sub-user permissions configuration

URL purge, directory purge, and purge history query have been integrated within the permission system which supports permission configuration at the resource (domain name) level. For more information, see Console Permissions.

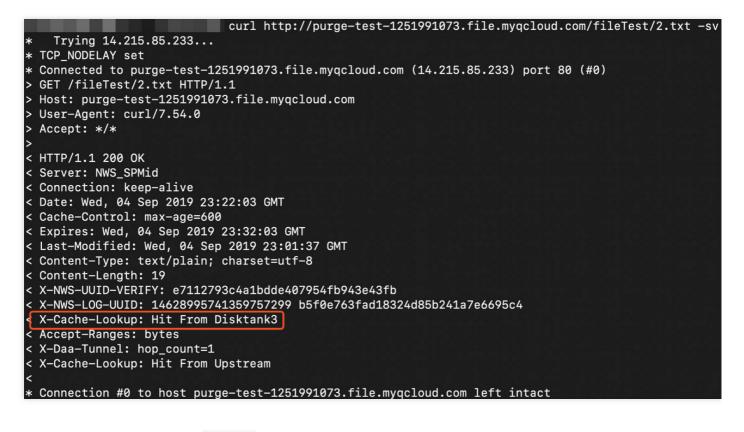
Examples

Directory purge - purge updated resources

The acceleration domain name is purge-test-1251991073.file.myqcloud.com , the origin server is Tencent Cloud Object Storage (COS), and resources on the origin server are as follows:

1. Initiate requests to access resources 1.txt and 2.txt respectively. Nodes to be hit can be determined based on X-Cache-Lookup: Hit From Disktank3 and Server: NWS_SPMid , resources will be directly returned by the nodes:

| curl http://purge-test-1251991073.file.myqcloud.com/fileTest/1.txt -sv |
|---|
| * Trying 14.215.85.233 |
| * TCP_NODELAY set |
| * Connected to purge-test-1251991073.file.myqcloud.com (14.215.85.233) port 80 (#0) |
| > GET /fileTest/1.txt HTTP/1.1 |
| > Host: purge-test-1251991073.file.myqcloud.com |
| > User-Agent: curl/7.54.0 |
| > Accept: */* |
| > |
| < HTTP/1.1 200 OK |
| < Server: NWS_SPMid |
| < Connection: keep-alive |
| < Date: Wed, 04 Sep 2019 23:20:46 GMT |
| < Cache-Control: max-age=600 |
| < Expires: Wed, 04 Sep 2019 23:30:46 GMT |
| < Last-Modified: Wed, 04 Sep 2019 23:01:37 GMT |
| < Content-Type: text/plain; charset=utf-8 |
| < Content-Length: 19 |
| < X-NWS-UUID-VERIFY: 72e4a2dbd2e9e5304c17d2beb0bf39d5 |
| < X-NWS-LOG-UUID: 5673286006122774168 b5f0e763fad18324d85b241a7e6695c4 |
| <x-cache-lookup: disktank3<="" from="" hit="" th=""></x-cache-lookup:> |
| < Accept-Ranges: bytes |
| < X-Daa-Tunnel: hop_count=1 |
| < X-Cache-Lookup: Hit From Upstream |
| <pre></pre> |
| * Connection #0 to host purge-test-1251991073.file.myqcloud.com left intact |



2. On the origin server, replace 1.txt with a file that has the same name, and the file's last modified time changes,

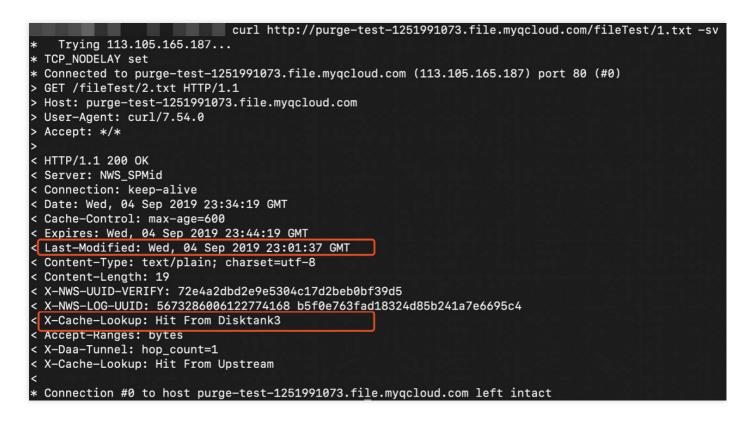
while 2.txt stays the same:



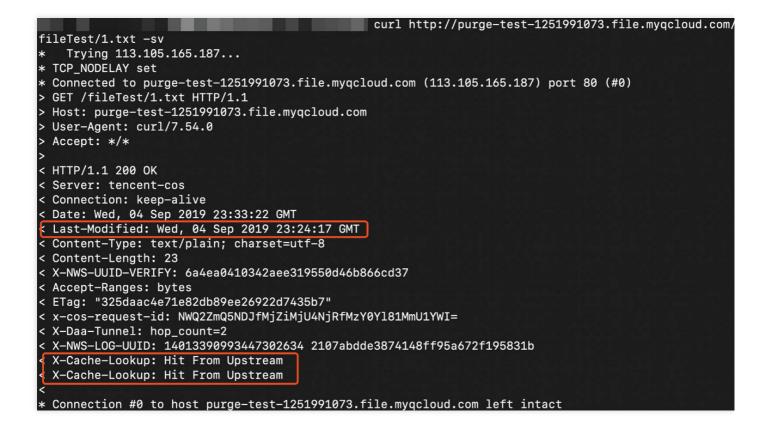
| Basic Information | |
|---------------------|--|
| Object Name | 1.bt |
| Object Size | 258B |
| Last Modified | 2019-12-11 17:12:12 |
| ETag | "3f4989383498b548700c122d56a708ed" |
| Specified Domain(i) | Default CDN Accelerati 💌 |
| Object Address | https://examplebucket1-1259222427.file.myqcloud.com/fileTest/1.txt |
| Temporary Link | To Copy Temporary Link 🛓 Download Objects 🧳 Refresh |
| | The temporary link carries the signature parameter, and the temporary link can be used to access the object during the validity period of the signature, and the signature is valid for 1 hour (2019-12-11 18:12:56). Be sure to avoid leaking the temporary link, otherwise your objects may be accessed by other users. |

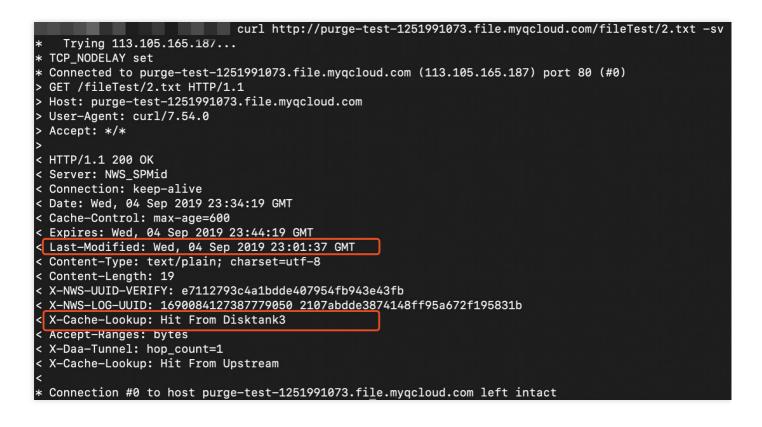
| Basic Information | | | |
|-------------------|---|--|--|
| Object Name | 1.bd | | |
| Object Size | 240B | | |
| Last Modified | 2019-12-11 17:30:21 | | |
| ETag | "282ba0ab22810e2eb79aa52fcdcacccb" | | |
| Specified Domain | Default CDN Accelerati 💌 | | |
| Object Address | https://examplebucket1-1259222427.file.myqcloud.com/fileTest/1.txt 🛛 🛅 | | |
| Temporary Link | To Copy Temporary Link 🛓 Download Objects 🗘 Refresh | | |
| | The temporary link carries the signature parameter, and the temporary link can be used to access the object during the validity period of the signature, and the signature is valid for 1 hour (2019-12-11 18:30:25). | | |
| | Be sure to avoid leaking the temporary link, otherwise your objects may be accessed by other users. | | |

3. Initiate requests again. As the cache has not expired, the legacy content of the 1.txt resource will be accessed:



- 4. Submit a directory purge task, select **Purge updated resources**, and wait for the purge to complete:
- 5. After the purge is complete, because Last-Modified of 1.txt has been changed, the request will be forwarded to the origin server. As 2.txt has not been changed, even after a directory purge task is submitted, it will still be hit and returned:





Prefetch Cache

Last updated : 2020-12-22 10:18:05

Feature Overview

After a domain name is connected to the CDN service, it initially has no resources on CDN cache nodes across the entire network. Resources will be cached once triggered by a user request. If the requested resources are expired or not cached on the cache node, CDN intermediate node will be pulled for the resources. If they are expired or not cached on the intermediate node neither, the user's origin server will be pulled.

CDN prefetch feature allows you to submit a resource list for loading resources to cache nodes without user requests.

- When a node loads a resource, if there is a valid (not expired) resource with the same name already cached on the node, the resource will not be loaded. We recommend purging resources entirely across the network before you update any resource with the same name.
- Nodes load resources from the origin server, of which the bandwidth will increase after a large number of prefetch tasks are submitted.
- Acceleration domain name services are deployed in a double-layer acceleration mechanism by default. Prefetching
 resources in the Chinese mainland, resources are loaded to intermediate nodes within the Chinese mainland by
 default, while prefetching resources in the regions outside the Chinese mainland, resources are loaded to edge
 servers outside the Chinese mainland by default.

Note:

Prefetching resources in the regions outside the Chinese mainland, resources are loaded to edge servers outside the Chinese mainland by default, and the traffic incurred on the edge layer is charged.

Use Cases

Installation package releases

Before releasing any new edition or update of installation packages, you can prefetch the resources to CDN cache nodes. After packages are officially released, massive download requests from users will be taken over by CDN cache nodes, increasing download speed and reducing the pressure on the origin server.

Marketing events

Before initiating any marketing events, you can prefetch the related web static resources to CDN cache nodes. After events are officially started, all the requested web static resources will be returned from CDN cache nodes, guaranteeing service availability for a better user experience through abundant bandwidth reserve.

Operations Guide

How to use

- 1. Log in to the CDN console, click **Purge and Prefetch** on the left sidebar, open the **Prefetch URL** tab to submit a task.
- 2. You can specify a target region to prefetch resources.
 - For acceleration domain names in the Chinese mainland, only **Chinese Mainland** can be specified for acceleration.
 - For acceleration domain names outside the Chinese mainland, only **Overseas** (i.e., the regions outside the Chinese mainland) can be specified for acceleration.
 - For global acceleration domain names, **Global**, **Chinese Mainland**, and **Overseas** (i.e., the regions outside the Chinese mainland) can be specified for acceleration.

| Purge and Prefetch | | | |
|--------------------|---------------------|---|---------------------|
| Purge URL Purge | Directory Prefetch | th URL History | |
| | | | Prefetch URLs API 🔽 |
| | Prefetch Area 🛈 | Global Chinese Mainland Overseas | |
| | URL | Enter URL of the object you want to prefetch (include http://); one per line | |
| | | | |
| | | | |
| | | | 0/20 |
| | Av | Widcards are not supported now. Wailable prefetch URLs for today: 1000 (Mainland) Wailable prefetch URLs for today: 1000 (Overseas) | 0760 |
| | Submit and Prefetch | ch - | |

3. In the **History** tab, you can query prefetch tasks by a specified time period and term. Term queries only support querying with a domain name or a complete URL:



| Purge and Prefetch | | | | | |
|------------------------|----------------------------|--|------------|-------------------|----------------|
| Purge URL Purge Direct | tory Prefetch URL | History | | | |
| | | | | | |
| | | | | | |
| S | elect a date 2020-12-15 00 | :00:00 ~ 2020-12-15 23:59:59 🖬 🛈 (UTC+08:00) | | | |
| Se | earch term Enter a domain | n name, or a complete URL (includes Scheme) | | | |
| | | | | | |
| Q | Query type OPurge URL | Purge Directory Prefetch URL | | | |
| | | | | | |
| | Query | | | | |
| | | | | | |
| | | | | | |
| | | | | | <u>+</u> |
| | | | | | |
| | Purge Records | | Purge Time | Status T | |
| | | | No record | | |
| | | | | | |
| | Total items: 0 | | | 10 🔻 / page 🛛 🖻 🔺 | 1 / 1 page → H |
| | | | | | |
| | | | | | |

Precautions

Prefetch limits

- Up to 1,000 URLs can be prefetched per day for each account in each acceleration region, and up to 20 URLs can be prefetched at a time. After a global prefetch task is conducted, the quota for regions in and outside the Chinese mainland will be used at the same time.
- You need to add the http:// or https:// protocol identifier when submitting a prefetch task.
- URLs in the format of http://*.test.com cannot be prefetched.
- URLs containing Chinese characters cannot be prefetched.

Sub-user permissions configuration

- URL prefetch and prefetch history query have been integrated to the latest permission system and support permission configuration at the resource (domain name) level.
- For the permission assignment method, please see Console Permissions.

History

Last updated : 2023-03-10 14:25:21

Description

After submitting purge and prefetch tasks, you can view detailed records and status of resource purge and prefetch in **History** page.

Directions

How to use

- 1. Log in to the CDN console, click **Purge and Prefetch** on the left sidebar, and click **History**.
- 2. Query purge and prefetch tasks by specifying a time period, domain name/URL, or task type. You can specify a complete purge URL/directory or a complete prefetch URL.

| Date | 2023-02-24 00:00:00 ~ 2023-02-24 23:59:59 📋 🛈 (UTC+08:00) | | | |
|--------------|---|------------|-----------------|-------------------|
| Search Term | Enter a domain name, or a complete URL (includes Scheme) | | | |
| Query Type 🕻 | Purge URL Purge Directory Prefetch URL | | | |
| Search | | | | |
| Scaren | • | | | |
| Submit ag | ain | | | ¢ ± |
| Purge F | Records | Purge Time | Status T | |
| | | No record | | |
| Total items: | 0 | | 10 🔻 / page | H 4 1 /1 page > H |
| | | | | |

Notes

The console can return up to 10,000 logs at a time, which can be exported to an Excel file. If you have more than 10,000 purge tasks, please query and export them in batches.

Purge and Prefetch FAQs

Last updated : 2022-02-26 10:16:05

When do I need to purge and prefetch?

- Purge: To ensure that users access to the latest resources when there are resources to update, restricted
 resources to remove, or domain name configurations to change on your origin server, you can submit a purge task,
 which can prevent user access to old resources or old configurations from the node cache. For more details, see
 Purge Cache.
- Prefetch: For operating activities, installation packages or upgrade packages to release, you can submit a prefetch task to prefetch static resources to CDN acceleration nodes, which will reduce strain on the origin server and improve the service availability and user experience. For more details, see Prefetch Cache.

What are the differences between purge and prefetch?

- Once a resource is purged, its cache on all CDN nodes across the entire network will be deleted. When a user request arrives at a node, the node will pull the corresponding resource from the origin server, return it to the user, and cache it to the node to ensure that the user can obtain the latest resource.
- When a resource is prefetched, it will be cached in advance to all CDN nodes across the entire network. When a user request arrives at a node, the resource can be directly obtained on the node.

What are requirements for purge and prefetch? How long do they take to take effect?

- Purge Cache
 - URL purge: a maximum of 10,000 URLs can be purged each day and a maximum of 1,000 URLs can be submitted for each purge. It takes about 5 minutes for the purge to take effect. If the cache validity period configured for the file is less than 5 minutes, we recommend you wait for the timeout and update instead of using the purge tool.
 - Directory purge: a maximum of 100 directories can be purged each day and a maximum of 20 URL directories can be submitted for each purge. It takes about 5 minutes for the purge to take effect. If the cache validity period configured for the folder is less than 5 minutes, we recommend you wait for the timeout and update instead of using the purge tool.
- Prefetch Resource
 - URL prefetch: A maximum of 1,000 URLs can be prefetched each day, and a maximum of 20 URLs can be submitted for each prefetch task. It takes about 5 to 30 minutes for the prefetch to take effect, depending on the file size.

Will the cache on CDN nodes be updated in real time?

No. The cached content on CDN cache nodes are updated based on the cache validity you configured in the console. If you need to update a file's cache in real time, use cache purge.

How do I view the purge and prefetch history?

You can check the purge and prefetch history in the CDN console. For more information, see History.

Can I prefetch with custom request headers?

No.

Log Management Log Service

Last updated : 2023-09-06 16:54:03

Notice:

Field value "HTTP/3" for the HTTP protocol identifier (the 14th field in the offline log) in general logs will be in beta from September 13, 2021, which will not affect the CDN console and APIs. Please note that getting log data from offline log packages may require adjustment.

QUIC access has been in beta. For more details, see QUIC.

Features

After a domain name is connected to CDN, all requests will be scheduled to a CDN node. If the requested resource is cached on the node, the resource will be returned directly; otherwise, the request will be passed to the origin server to pull the requested resource.

CDN nodes respond to most of the user requests. To facilitate access analysis, CDN packages access logs of the entire network at an hourly granularity and retains them for 30 days by default. These logs can also be downloaded.

Note :

- Currently origin-pull logs are not provided. Only node access logs are provided.
- ECDN domain name offline logs cannot be queried by regions for now. For more information, see Log Management.

Use Cases

Access behavior analysis

You can download access logs and analyze popular resources and active users.

Service quality monitoring

By downloading access logs, you can stay on top of the service status of all CDN nodes and calculate the average response time, average download speed, and other metrics.

Directions

How to use

Log in to the CDN console, click Log Service on the left sidebar, and select a domain name and time range to query access logs. You can select multiple log packages and download them in batches:

Note :

- The access logs are packaged by hour by default. If there is no request to the domain name for the hour, no log package will be generated for this hour.
- For the same domain name, logs of accesses from within and outside the Chinese mainland are packaged separately. Log packages are named in the format of "[time]-[domain name]-[acceleration region]".
- The access logs are collected from each CDN cache node, so the delay may vary. Generally, the delay for querying and downloading log packages is about 30 minutes. Log packages will be added continuously and will stabilize after around 24 hours.
- The access log packages of a domain name are retained for 30 days. You can use an SCF function to transfer the log packages to COS as instructed in Regularly Storing CDN Logs for permanent storage.

Fields

The fields (from left to right) in the logs are listed as below:

| No. | Fields |
|-----|---|
| 1 | Request time |
| 2 | Client IP |
| 3 | Domain name |
| 4 | Request path |
| 5 | Number of bytes accessed this time, including the size of the file itself and the size of the request header. |
| 6 | Province numbers for Chinese mainland logs; region numbers for logs outside the Chinese mainland (see the mapping table below). |



| No. | Fields |
|-----|--|
| 7 | ISP numbers for Chinese mainland logs; `-1` will be used for logs outside the Chinese mainland (see the mapping table below). |
| 8 | HTTP status code |
| 9 | Referer information |
| 10 | Response time (in milliseconds), which refers to the time it takes for a node to return all packets to the client after receiving a request. |
| 11 | User-Agent information |
| 12 | Range parameter |
| 13 | HTTP method |
| 14 | HTTP protocol identifier |
| 15 | Cache hit/miss. A hit in a CDN edge server or parent node will be marked as hit. |
| 16 | A port connecting the client and CDN nodes. This field will be displayed as `-` if the port does not exist. |

Region/ISP mappings

Chinese mainland provinces

| Region ID | Region | Region ID | Region | Region ID | Region |
|-----------|----------|-----------|----------------|-----------|----------|
| 22 | Beijing | 86 | Inner Mongolia | 146 | Shanxi |
| 1069 | Hebei | 1177 | Tianjin | 119 | Ningxia |
| 152 | Shaanxi | 1208 | Gansu | 1467 | Qinghai |
| 1468 | Xinjiang | 145 | Heilongjiang | 1445 | Jilin |
| 1464 | Liaoning | 2 | Fujian | 120 | Jiangsu |
| 121 | Anhui | 122 | Shandong | 1050 | Shanghai |
| 1442 | Zhejiang | 182 | Henan | 1135 | Hubei |
| 1465 | Jiangxi | 1466 | Hunan | 118 | Guizhou |
| 153 | Yunnan | 1051 | Chongqing | 1068 | Sichuan |

| Region ID | Region | Region ID | Region | Region ID | Region |
|-----------|------------------------------------|-----------|-----------|-----------|---|
| 1155 | Tibet | 4 | Guangdong | 173 | Guangxi |
| 1441 | Hainan | 0 | Other | 1 | Hong Kong (China), Macao (China), and Taiwan (China) |
| -1 | Outside the Chinese mainland | | | | |

Chinese mainland ISPs

| ISP ID | ISP | ISP ID | ISP | ISP ID | ISP |
|--------|---|--------|--------------|--------|-------------------------|
| 2 | China Telecom | 26 | China Unicom | 38 | CERNET |
| 43 | Great Wall Broadband Network | 1046 | China Mobile | 3947 | China Mobile Tietong |
| -1 | ISPs outside the Chinese mainland | 0 | Other ISPs | | |

Regions outside the Chinese mainland

| Region ID | Region | Region ID | Region | Region ID | Region |
|------------|---------------------------------------|-----------|----------|-----------|-------------|
| 2000000001 | Asia Pacific Zone 1 (service area) | 765 | Slovakia | 1613 | Angola |
| 2000000002 | Asia Pacific Zone 2 (service area) | 766 | Serbia | 1617 | Ivory Coast |
| 200000003 | Asia Pacific Zone 3 (service area) | 770 | Finland | 1620 | Sudan |
| 2000000004 | Middle East (service area) | 773 | Belgium | 1681 | Mauritius |
| 200000005 | North America (service area) | 809 | Bulgaria | 1693 | Morocco |

🔗 Tencent Cloud

| Region ID | Region | Region ID | Region | Region ID | Region |
|------------|------------------------------|-----------|-------------|-----------|-------------------|
| 2000000006 | Europe (service area) | 811 | Slovenia | 1695 | Algeria |
| 200000007 | South America (service area) | 812 | Moldova | 1698 | Guinea |
| 200000008 | Africa (service area) | 813 | Macedonia | 1730 | Senegal |
| -20 | Asia (client area) | 824 | Estonia | 1864 | Tunisia |
| -21 | South America (client area) | 835 | Croatia | 1909 | Uruguay |
| -22 | North America (client area) | 837 | Poland | 1916 | Greenland |
| -23 | Europe (client area) | 852 | Latvia | 2026 | Taiwan (China) |
| -24 | Africa (client area) | 857 | Jordan | 2083 | Myanmar |
| -25 | Oceania (client area) | 884 | Kyrgyzstan | 2087 | Brunei |
| 35 | Nepal | 896 | Ireland | 2094 | Sri Lanka |
| 57 | Thailand | 901 | Libya | 2150 | Panama |
| 73 | India | 904 | Armenia | 2175 | Colombia |
| 144 | Vietnam | 921 | Yemen | 2273 | Monaco |
| 192 | France | 926 | Belarus | 2343 | Andorra |
| 207 | United Kingdom | 971 | Luxembourg | 2421 | Turkmenistan |
| 208 | Sweden | 1036 | New Zealand | 2435 | Laos |
| 209 | Germany | 1044 | Japan | 2488 | East Timor |
| 213 | Italy | 1066 | Pakistan | 2490 | Tonga |
| 214 | Spain | 1070 | Malta | 2588 | Philippines |
| 386 | United Arab Emirates | 1091 | Bahamas | 2609 | Venezuela |
| 391 | Israel | 1129 | Argentina | 2612 | Bolivia |
| 397 | Ukraine | 1134 | Bangladesh | 2613 | Brazil |

| Region ID | Region | Region ID | Region | Region ID | Region |
|-----------|---------------|-----------|----------------------|-----------|---------------------------|
| - | - | 1158 | Cambodia | 2623 | Costa Rica |
| 417 | Kazakhstan | 1159 | Macao (China) | 2626 | Mexico |
| 428 | Portugal | 1176 | Singapore | 2639 | Honduras |
| 443 | Greece | 1179 | Maldives | 2645 | El Salvador |
| 471 | Saudi Arabia | 1180 | Afghanistan | 2647 | Paraguay |
| 529 | Denmark | 1185 | Fiji | 2661 | Peru |
| 565 | Iran | 1186 | Mongolia | 2728 | Nicaragua |
| 578 | Norway | 1195 | Indonesia | 2734 | Ecuador |
| 669 | United States | 1200 | Hong Kong (China) | 2768 | Guatemala |
| 692 | Syria | 1233 | Qatar | 2999 | Aruba |
| 704 | Cyprus | 1255 | Iceland | 3058 | Ethiopia |
| 706 | Czech | 1289 | Albania | 3144 | Bosnia and Herzegovina |
| 707 | Switzerland | 1353 | Uzbekistan | 3216 | Dominican |
| 708 | Iraq | 1407 | San Marino | 3379 | South Korea |
| 714 | Netherlands | 1416 | Kuwait | 3701 | Malaysia |
| 717 | Romania | 1417 | Montenegro | 3839 | Canada |
| 721 | Lebanon | 1493 | Tajikistan | 4450 | Australia |
| 725 | Hungary | 1501 | Bahrain | 4460 | Chinese mainland |
| 726 | Georgia | 1543 | Chile | -15 | Asia - other |
| 731 | Azerbaijan | 1559 | South Africa | -14 | South America - other |
| 734 | Austria | 1567 | Egypt | -13 | North America - other |

| Region ID | Region | Region ID | Region | Region ID | Region |
|-----------|-----------|-----------|------------|-----------|---|
| 736 | Palestine | 1590 | Kenya | -12 | Europe - other |
| 737 | Türkiye | 1592 | Nigeria | -11 | Africa - other |
| 759 | Lithuania | 1598 | Tanzania | -10 | Oceania - other |
| 763 | Oman | 1611 | Madagascar | -2 | Outside the Chinese mainland - other |

ISPs outside the Chinese mainland

| ISP ID | ISP |
|--------|-----------------------------------|
| -1 | ISPs outside the Chinese mainland |

Notes

The traffic/bandwidth data calculated based on the number of bytes recorded in the fifth field of an access log is different from the billable CDN traffic/bandwidth data for the following reason:

- Only application-layer data can be recorded in access logs. During actual data transfer, the traffic generated over the network is around 5-15% more than the application-layer traffic, including the following two parts:
 - Consumption by TCP/IP headers: in TCP/IP-based HTTP requests, each packet has a maximum size of 1,500 bytes and includes TCP and IP headers of 40 bytes, which generate traffic during transfer but cannot be counted by the application layer. The overhead of this part is around 3%.
 - TCP retransmission: during normal data transfer over the network, around 3% to 10% of packets are lost on the Internet and retransmitted by the server. This type of traffic, which accounts for 3-7% of the total traffic, cannot be counted at the application layer.
- As an industry standard, the billable traffic is the sum of the application-layer traffic and the overheads described above. Tencent Cloud CDN takes 10% as the overheads proportion, so the monitored traffic is around 110% of the logged traffic.

Examples

Sample log of accesses from within the Chinese mainland

| 20170719174306 | 10.10.10.10 | www.test.com | /test.png | 77487 3 2 | 0 NUL | L 140 | 08 "Mo | zilla/ |
|----------------|-------------|--------------|------------|-----------|-------|-----------------------|--------|--------|
| 20170719174407 | 10.10.10.10 | www.test.com | /test2.png | 72488 5 2 | 200 | NULL | 13569 | "Mozi |
| 20170719174520 | 10.10.10.10 | www.test.com | /test3.png | 74864 4 2 | 200 | NULL | 9474 | "Mozil |
| 20170719174544 | 10.10.10.10 | www.test.com | /test4.png | 81453 2 2 | 200 | NULL | 9218 | "Mozil |
| 20170719174532 | 10.10.10.10 | www.test.com | /test5.png | 54678 7 2 | 200 | NULL | 9041 | "Mozil |

Sample log of accesses from outside the Chinese mainland

| 0 0 0 | 睯 2019111210-shary.oversea.elliotxing.com — 已编辑 |
|---------------|--|
| | t 465 1176 –1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | t 369 1176 -1 200 NULL 664 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 1 397 1176 –1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | 465 1176 -1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | 410 1176 -1 200 NULL 1073 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 368 1176 -1 200 NULL 2562 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 397 1176 -1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | t 409 1176 -1 200 NULL 2748 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 1 466 1176 -1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | 409 1176 -1 200 NULL 3536 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | t 409 1176 -1 200 NULL 1659 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | t 395 1176 -1 200 NULL 685 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | t 369 1176 -1 200 NULL 1424 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | t 397 1176 -1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | 1176 -1 301 NULL 338 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | 2 1176 -1 301 NULL 650 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | 2 1176 -1 301 NULL 2007 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | 1176 -1 301 NULL 257 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 1176 –1 301 NULL 233 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss 1176 –1 301 NULL 479 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | 9 1176 -1 301 NULL 259 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 2 1176 -1 301 NULL 256 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | 1176 -1 301 NULL 138 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 09 3839 -1 200 NULL 987 "python-requests/2.18.4" "(null)" HEAD HTTP/1.1 miss |
| | 96 3839 -1 200 NULL 967 "python-requests/2.18.4" "(null)" GET HTTP/1.1 miss |
| | 39 -1 301 NULL 1406 "python-requests/2.11.1" "(null)" GET HTTP/1.1 miss |
| | t 409 1176 -1 200 NULL 1387 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| | 466 1176 -1 200 NULL 1 "python-requests/2.11.1" "(null)" GET HTTP/1.1 hit |
| | 410 1176 -1 200 NULL 862 "python-requests/2.11.1" "(null)" HEAD HTTP/1.1 miss |
| (another man | |

Real-time Logs

Last updated : 2023-06-29 17:45:01

Real-time Logging

Tencent Cloud CDN provides the real-time log feature. This feature collects and publishes access logs in real time, enabling fast retrieval and analysis of log data. You can quickly access comprehensive, stable, and reliable one-stop logging services such as log collection, log storage, and log search in the CDN console.

Use Cases

You can access log data to view or analyze business conditions in multiple dimensions in real time.

Directions

Log in to the CDN console, click Log Service in the left sidebar, and then click the Real-time Logs tab.

Enabling logging

To use this feature, you need to activate Logging Service (CLS) and grant CDN the permissions to create a logset.

Note:

- We recommend that you use the root account to enable this feature. If you use a sub-account or are a collaborator, enable the real-time log feature as instructed in Activate Real-time Logging as Sub-account/Collaborator.
- When you enable the real-time log feature, CDN creates a logset for each region to host CDN logs.
- A logset is a billable item as a part of CLS. However, the publish of CDN logs is free. For more information about the billing rules, see Billing Overview.
- At present, log shipping is supported in Shanghai, Beijing, Chengdu, Chongqing, Nanjing, Guangzhou, and Singapore.

Creating a log topic

Create a log topic in a logset, and ship the access logs of the target accelerated domain name to CLS.

Note :

- A logset can contain up to 500 log topics.
- The topic name must be unique.
- You cannot bind both CDN and ECDN domain names to the same log topic.
- Logs of CDN domain names in the Chinese mainland can be shipped to Shanghai, Beijing, Chengdu, Chongqing, Nanjing, and Guangzhou. The logs of CDN domain names outside the Chinese mainland can be shipped to only the Singapore region.
- ECDN domain names do not support log publishing to regions outside the Chinese mainland.

Log search

Log search supports various search and analysis methods and chart types. For more information, see Search and Analysis.

You can search for logs by log topic. To do so, select a log topic as needed and click **Search** to access the log search page.

Managing log topics and logsets

You can manage log topics in the CDN console. The following operations are supported:

- Manage: Update the list of domain names bound to a log topic
- Disable: Stop shipping logs of bound domain names to the log topic. . Received logs are retained.
- Enable: Ship logs of bound domain names to the log topic.
- Delete: After a log topic is deleted, the log topic no longer accepts new log shipping of the bound domain names, and completely clears all logs it contains.

For more logset managing operations, such as renaming a logset, you can go to the CLS console.

Real-time Log Fields

| Log Field | Raw Log Type | Log Service Type | Description |
|-----------|--------------|------------------|--------------------------------------|
| app_id | Integer | long | Tencent Cloud account APPID |
| client_ip | String | text | Client IP |



| Log Field | Raw Log Type | Log Service Type | Description |
|---------------|--------------|------------------|--|
| file_size | Integer | long | File size |
| hit | String | text | Cache hit/miss. Both hits on CDN edge servers and parent nodes are marked as hit |
| host | String | text | Domain name |
| http_code | Integer | long | HTTP status code |
| isp | String | text | ISP |
| method | String | text | HTTP method |
| param | String | text | Parameter carried in URL |
| proto | String | text | HTTP protocol identifier |
| prov | String | text | ISP province |
| referer | String | text | Referer information, i.e., HTTP source address |
| request_range | String | text | Range parameter, i.e., request range |



| Log Field | Raw Log Type | Log Service Type | Description |
|--------------|--------------|------------------|--|
| request_time | Integer | long | Response time (in milliseconds), which refers to the time it takes for a node to return all packets to the client after receiving a request. |
| remote_port | String | long | A port connecting the client and CDN nodes. This field will be displayed as – if the port does not exist. |
| rsp_size | Integer | long | Number of returned bytes |
| time | Integer | long | Request timestamp in UNIX format (in seconds) |
| ua | String | text | User- Agent information |
| url | String | text | Request path |
| uuid | String | text | Unique request ID |



| Log Field | Raw Log Type | Log Service Type | Description |
|-----------|--------------|------------------|----------------------------------|
| version | Integer | long | CDN real- time log version |

Glossary

Logset

A logset is a project management unit in the log service. It is used to distinguish between logs of different projects and corresponds to an item or application. The CDN logset has the following basic attributes:

• Region: The region to which a logset belongs.

Note:

At present, log shipping is supported in Shanghai, Beijing, Chengdu, Chongqing, Nanjing, Guangzhou, and Singapore.

- Logset name: Name of the logset.
- Retention period: Retention period of data in the logset.
- Creation time: Logset creation time.

Log topic

A log topic is the basic management unit in the log service. One logset can contain multiple log topics, and one log topic corresponds to one type of application or service. We recommend you collect similar logs on different machines into the same log topic. For example, if a business project has three types of logs: operation log, application log, and access log, you can create a log topic for each type of log.

The log service system manages different log data based on different log topics. Each log topic can be configured with different data sources, index rules, and shipping rules. Therefore, a log topic is the basic unit for configuring and managing log data in the log service. You need to configure corresponding rules first after creating a log topic before you can perform log collection, search, analysis, and shipping.

Log topic features include:

- Collect logs to log topics.
- Store and manage logs based on log topics.
- Search and analyze logs by log topics.

- Ship logs to other platforms based on log topics.
- Download and consume logs from log topics.

Note : For more information, see CLS documentation.

FAQs

Some of my logsets and log topics in the CLS console are not displayed in the CDN console. Why is that?

The CDN console displays only the logs created by the CDN service role, which are real-time logs exclusive to CDN. Other logsets and log topics are not synchronized to the CDN console.

I cannot retrieve the data I want in the real-time logs. Are they lost?

It may be because your log data volume is large, but the corresponding log topic has only a single partition, or automatic splitting is disabled for it. When you create a log topic, the default number of partitions is 1, and automatic splitting is enabled by default.

We recommend you estimate the number of required partitions based on your log volume and configure it in the advanced options in the CLS console. For more information, see Topic Partition.

Can I delete CLS logsets?

Yes. To delete a CDN logset, go to the CLS console, delete all log topics in the logset, and then delete the logset. The deletion will be synchronized to the CDN console. You can create new logsets and log topics in the CDN console later.

EdgeOne

Last updated : 2023-10-11 11:09:57

With globally distributed edge nodes, Tencent Cloud EdgeOne offers CDN acceleration combined with comprehensive edge security services, including DDoS mitigation, web protection, bot management and custom rules, enabling more flexible and more robust protection capabilities.

To protect your domain names connected to CDN, migrate your service to EdgeOne as follows.

Directions

Step 1: Decide the protection scope

As EdgeOne service is provided based on sites, you should determine how many sites needed for your domain names. See examples below:

| CDN Domain Name | EdgeOne Site |
|---|---|
| <pre>www.example.com test.example.com image.example.com</pre> | example.com |
| <pre>www.example.com test.example.com www.site.com</pre> | example.com
 site.com</br |

Step 2: Add sites and acceleration domain names

Go to the EdgeOne console to add your site and acceleration domain name. For detailed steps, see Quick Start.

To add a site, you need to subscribe to an EdgeOne plan. The Standard plan is recommended as it offers DDoS mitigation, web protection, CC protection and bot management along with limited security traffic and requests. For more details, see EdgeOne Plans.

Note

Security features (including DDoS mitigation and web protection) are enabled automatically once your acceleration domain name is added to EdgeOne. To customize the security configuration as needed, refer to Step 3.

(Optional) Step 3: Customize security policies

Custom security policies such as IP blocklist/allowlist, regional blocking and web protection rules can be created to suit your needs. For configuration details, see the documents below:

DDoS Mitigation Web Protection Bot Management

CDN Refund

To return unused CDN resources, submit your purchase records via a ticket. Fees will be sent back based on the percentage of remaining usage.

Service Query Entire Network Status Monitoring

Last updated : 2020-04-27 18:22:08

Feature Overview

CDN can monitor the latency and availability status of ISP in each province in Mainland China and each region outside Mainland China. It continues to send requests to monitoring files at selected nodes around the world and collects the response data of these requests. You can view real-time status and details of the entire network in the CDN Console.

The entire network monitoring feature monitors the service status of the CDN platform, not the actual service status of your business.

Directions

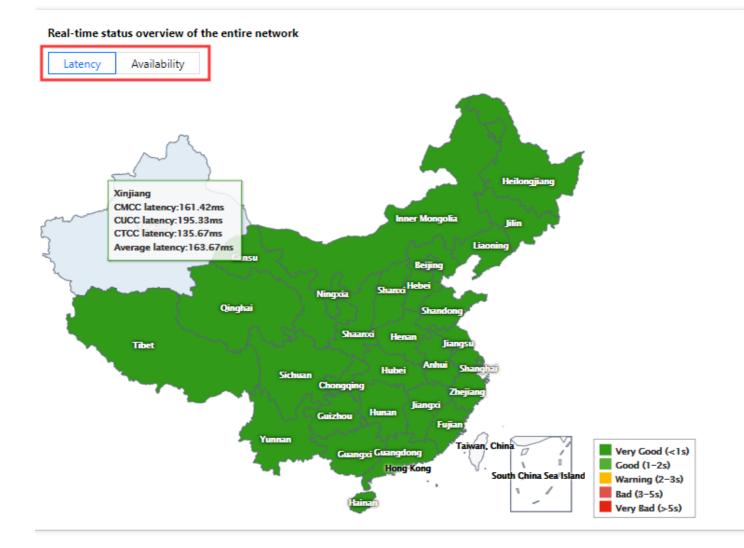
Log in to the CDN Console and click **Global Status** on the left sidebar to enter the real-time status overview of the entire network page.

Real-time status overview of the entire network

In **Real-time status overview of the entire network**, you can view the latency and availability status of ISP in each province in Mainland China and each region outside Mainland China. You can hover over a region in the map to view the corresponding data.

Real-time data in the map is updated every minute.

1. Mainland China



Hover over a province to see the data of three major ISPs (China Mobile, China Unicom, and China Telecom). Small and medium-sized ISPs are included when calculating the average latency or availability.

2. Outside Mainland China

Entire network status details

In **Network Monitoring**, you can view the historical latency and availability curves of a specified region or ISP in Mainland China or a specified region outside Mainland China for a specified time period.

Time period: you can query the access statistics for the last 30 days with a maximum time span of 30 days.



1. Mainland China

You can add multiple query criteria at a time to view multiple curves.

| Network Monitoring |) | | | | | | | | |
|--------------------|--------------------------------------|------------------|--------------|--------------|-----------------|-------------|-------------|---------|-------------|
| Today Yester | day Last 7 days | Last 15 days | Last 30 days | 2019-12-03 🛍 | | | | | |
| Query Contents Ch | ina-Carrier Av × Ad | ld a Query | | | | | | | |
| Select a region | | | | | | | | | |
| | China: 🔵 China | | | | | | | | |
| | Northern China: 🔘 🔘 Shanxi 🔘 Hebei | | longolia | | | | | | |
| : | Northwestern China: | | haanxi | | | | | | |
| 1 | Northeast China: 🔘 | Heilongjiang 🔵 . | Jilin | / | | | | | |
| 1 (| Eastern China: OFu OShandong OSha | | | how | March | m | ~M | | |
| : | Central China: 🔵 He | enan 🔿 Hubei 🔾 |) Jiangxi | | | V V | · \ | | |
| 1 | Southwestern China: | | /unnan | | | | | | |
| | Southern China: 🔿 | Guangdong 🔾 G | uangxi | 10:00 11:00 | 12:00 13:00 | 14:00 15:00 | 16:00 17:00 | 0 18:00 | 19:00 20:00 |
| Select a carrier | | | | — China_Car | rier Avg. Value | | | | |
| | China: 🧿 Carrier Av | g. Value | | | | | | | |
| | other: O CTCC O CCC | CUCC 🔾 GWBN | ○ смсс | | | | | | |
| (| OK Car | ncel | | | | | | | |
| t. | | | | | | | | | |

2. Outside Mainland China



You can select multiple regions at a time to view multiple curves.

| Late | ency(Unit: ms) | Download all data | Ŧ |
|------|---|----------------------|---|
| 175 | | | |
| 150 | | | |
| 125 | WWW WWWW | | |
| 100 | -marken marken | | |
| 75 | | | |
| 50 | | | |
| 25 | | | |
| 0 | 3 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 | 22:00 23:00 | 4 |
| | China_Carrier Avg. Value | | |

| Avai | abili | ty (Unit: | %) | | | | | | | | | | | | | | | | | | | | Downl data | oad all | Ŧ |
|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------------|--------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|---------------|---------|---|
| 100 - | ~ | | | | | | | ~~~ | | | | | | ~~~~ | <u></u> | | _ | 7 | | | | | | | |
| 80 - | | | | | | | | | | | | | Time: | ability Tre 2019–12 _Carrier / | -3 13:45 | | ; | | | | | | | | |
| 60 - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 - | 3 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00 | 18:00 | 19:00 | 20:00 | 21:00 | 22:00 | 23:00 | 4 |
| | | | | | | | | | | | - 0 | China_Ca | rrier Avg. | . Value | | | | | | | | | | | |

Verify Tencent IP

Last updated : 2021-04-13 18:27:53

Feature Overview

CDN offers a tool for querying IP ownership. This tool can be used to verify whether a specified IP is of a CDN global cache node, and check the IP's acceleration service region, district, and ISP.

Overview

This tool can be used for troubleshooting. When there is an access exception, you can query the IP accessed in the following ways:

- If the IP is not of a Tencent Cloud CDN node, the problem may be caused by domain name resolution exception.
 Please go to your DNS service provider and check whether the CNAME configuration is correct;
- If the IP is of a Tencent Cloud CDN node, you can check the node service status to see whether requests are interrupted by node activation/deactivation.

Operation Guide

Query Method

Log in to the CDN console and select Inspect Tool -> Verify Tencent Cloud CDN IP on the left sidebar.

| Verify Tencent Cloud C | DN IP | |
|------------------------|------------------|--|
| | Verify Server IP | Enter IP addresses you want to query (up to 20, one per line) |
| | | |
| | | Verify Verify whether the specified IP is a Tencent Cloud CDN server IP; support IPv6 format IP |

Use Limits

- Enter the IP addresses to be verified in the text box (one address per line).
- Up to 20 IP addresses can be verified at a time.
- Verification of IPv4 and IPv6 addresses is supported.

- Verification is supported for global cache nodes. For nodes in the Chinese mainland, data of the ISP in the corresponding district will be returned; for nodes outside the Chinese mainland, data of the corresponding country/region will be returned.
- You can view the node service status for the last 3 hours. If there were activation/deactivation status changes, the corresponding operation time will be displayed.

Use Cases

Nodes in the Chinese mainland

| Verify Tencent Cloud | CDN IP | | | | | |
|----------------------|-----------------------|---|--|--------------------------------------|--------|------------------------------------|
| | Verify Server IP | 124.232.162.187 Verify Verify whether the specified I | P is a Tencent Cloud CDN server IP; support IPv6 1 | format IP | | |
| | IP 124.232.162.187 | | Whether a Tencent Cloud CDN server Yes | Service Region Distribution China | Region | Service status ① Normal Service |

Nodes outside the Chinese mainland

| Verify Tencent Cloud | CDN IP | | | | | |
|----------------------|------------------|---|---|--|--------|------------------|
| | Verify Server IP | 211.152.130.101 | | | | |
| | IP | Verify Verify whether the specified IP | is a Tencent Cloud CDN server IP; support IPv6 fo | rmat IP Service Region Distribution | Region | Service status ① |
| | 211.152.130.101 | | Yes | International | | Normal Service |

Origin-pull Node Query

Last updated : 2023-03-10 14:25:21

Description

Tencent Cloud CDN allows you to query the IPs or IP ranges of origin-pull nodes by specifying an acceleration domain name.

Use Cases

You can query the IPs or IP ranges of origin-pull nodes based on your requirements for business access control.

Directions

Log in to the CDN console and choose Service Query > Verify Origin-pull Node on the left sidebar.

| Verify Origin-pull No | de | |
|-----------------------|--|---|
| | The origin-pull node que segment to the origin s | ery tool can access the origin-pull node IP through accelerated domain name query, and supports two types: IP address and IP segment. If your origin server has IP access restrictions, you can add the queried IP erver I |
| | Acceleration domain name | For example, www.test.com |
| | Queried Region | Chinese mainland Overseas Global |
| | Query Type | IP range IP address |
| | Query | |

Use instructions:

- Specify a valid acceleration domain name that is connected to CDN and enabled.
- When you configure the **Queried Region** parameter, select the acceleration region that corresponds to your acceleration domain name.
- Specify whether to query the IPs or IP ranges of origin-pull nodes based on your actual business needs.
- ISP information is not supported if you select **Overseas** as **Queried Region**.
- You can download the query results to your local device.

Self-Diagnosis Tool

Last updated : 2021-06-09 11:44:23

CDN provides a self-diagnostic tool to help you troubleshoot URL access failure. It locates the problem by checking the DNS resolution, linkage quality, node status, origin server, and data access consistency, and offers relevant solutions.

Note :

The resource URL to be diagnosed should be an **activated** domain name under your account. As the bandwidth generated during the diagnosis incur charges, we recommend the diagnosed resource being no more than 200 MB in size.

Fault Diagnosis

Diagnosis process

If a resource URL cannot be accessed, you can initiate diagnosis through Fault Self-diagnosis in the following steps:

- 1. Log in to the CDN console and select Inspect Tool -> Fault Self-diagnosis.
- 2. On the Fault Self-diagnosis page, enter the URL to be diagnosed. The URL should begin with http:// or

```
https:// .
```

| ault Diagnosis | Diagnostic Report | | | | |
|-----------------|---------------------------|--|--------------------------------------|---|--|
| Fault Self-diag | nosis only supports the d | iagnosis in Mainland China now. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | Please enter the complete URL, including htt | p:// or https://, such as http(s):// | Get a diagnosis link /www.test.com/textfile.js | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



3. Click Get a Diagnosis Link and the link address will appear on the page.

| ult Diagnosis | Diagnost | tic Report |
|--------------------|------------------------|--|
| i) Fault Self-diag | gnosis only sup | ports the diagnosis in Mainland China now. |
| | | |
| | | |
| | | http g.com Get a diagnosis link |
| Di | iagnosis Link | http://cdn.cloud.tencent.com |
| Ne | otes | Click to access the link above or copy and send it to other users for linkage diagnosis. It's recommended to open it with Chrome. You can go to "Diagnostic Report" to check report for this URL Bandwidth incurred for diagnosis will be counted into billed bandwidth. It's recommended that the diagnosis resource is no larger than 200MB. |
| | | |
| | | |

4. Click the link to open the diagnosis page where diagnosis information will be collected. Do not close the page during the diagnosis progress. You can manually close it after the diagnosis is completed.

| Configuration Deployment | 0 |
|--------------------------|---|
| letwork Checking | Ø |
| DNS Checking | 0 |
| inkage Checking | 0 |
|)ata Report | Ø |

5. You can also send the diagnosis link to others for local fault diagnosis. After the diagnosis is completed, you need to close the webpage manually.

Note :

- The diagnosis link is valid for 24 hours and supports up to 10 fault diagnoses.
- You can copy the available diagnosis links on the "Diagnostic Report" page.

Diagnostic Report

Viewing the report

- 1. After the diagnosis is completed, click **Diagnostic Report** to view the reports, which are displayed in a table in chronological order. The contents in the table include:
 - The URL for which a diagnosis link is generated.
 - The target area of the URL diagnosis.
 - The diagnosis link corresponding to the URL.
 - The time when the diagnosis link was generated.
 - The status of the diagnosis link.
 - The number of remaining available diagnoses of the diagnosis link.



Fault Self-diagnosis

| ault Diagnosis Dia | gnostic Report | | | | | |
|---|-------------------|------------------|---------------------|-----------------------------------|---------|-------------------------------|
| Refresh | | | | | | Enter a Diagnosis U |
| Diagnosis URL | Area (i) | Diagnosis Link | Generation Time 🕈 | Status T | Remains | Operation |
| http: | om Mainland China | Diagnosis Link 🗖 | 2020-04-24 11:02:32 | Valid for 23 hours and 55 minutes | 9 | Expand |
| http://doi.org/10.1000/000000000000000000000000000000 | c Mainland China | Diagnosis Link 🗖 | 2020-04-24 10:38:52 | Valid for 23 hours and 31 minutes | 9 | Expand |
| ▶ http:/ | rg Mainland China | Diagnosis Link 🗖 | 2020-04-24 10:31:24 | Valid for 23 hours and 24 minutes | 9 | Expand |
| > http: | st Mainland China | Diagnosis Link 🗖 | 2020-04-24 10:22:56 | Valid for 23 hours and 15 minutes | 8 | Expand |
| http:// | Mainland China | Diagnosis Link 🗖 | 2020-04-24 10:17:58 | Valid for 23 hours and 10 minutes | 10 | Expand |
| otal items: 5 | | | | 10 - | / page | 4 4 1 /1 page ▶ ▶ |

2. Click **Expand** in the operation column to view the report generated by each diagnosis and the diagnosis results.

| ault Diagnosis | Diagnostic | Report | | | | | | |
|----------------|------------|----------------|------------------|---------------------|-----------------------------------|-------------|---------------------|--|
| Refresh | | | | | | | Enter a Diagnosis U | |
| Diagnosis URL | | Area 🛈 | Diagnosis Link | Generation Time 💲 | Status T | Remains (i) | Operation | |
| http:// | | Mainland China | Diagnosis Link 🗖 | 2020-04-24 15:42:37 | Valid for 23 hours and 49 minutes | 9 | Expand | |
| r http: | | Mainland China | Diagnosis Link 🗖 | 2020-04-24 15:16:03 | Valid for 23 hours and 23 minutes | 9 | Collapse | |
| Client IP | | Region | | Check Time | Result | Rep | ort Details | |
| | | | | 2020-04-24 15:16:05 | | Viev | v Report | |
| ▶ http:/ | | Mainland China | Diagnosis Link 🗖 | 2020-04-24 15:03:40 | Valid for 23 hours and 10 | 9 | Expand | |

- 3. The diagnostic reports will make an overall assessment based on the diagnosis for each step as shown below:
 - Normal
 - Abnormal
 - Page abnormally closed. This happens generally when the page is closed before the diagnosis is completed.
- 4. Click View Report to view the diagnosis details and suggestions.

Report interpretation

- 1. The first part of the report displays diagnosis information, including:
 - Diagnostic report ID.
 - URL to be diagnosed.
 - Time when the diagnosis was triggered.

| Diagnosis Inform | mation | | | |
|------------------|---------------------|--------------|------------------|--|
| Report ID | 4/13cc5c | | | |
| Diagnosis URL | | | | |
| Area | Mainland China 🛈 | | | |
| Diagnosis Time | 2020-04-24 11:41:29 | | | |
| Diagnosis Result | t Overview | | | |
| ⊘ Get User In | formation | ONS Checking | O CNAME Checking | |
| ⊗ Get User In | formation | ONS Checking | OCNAME Checking | |

- 2. The second part gives an overview of the diagnosis process and the results of each diagnosis module. Exceptional modules are clearly identified. Diagnosis modules include:
 - Client information check result.
 - DNS check result.
 - CNAME check result.
 - Network linkage check result.
 - Access node check result.
 - Origin-pull node check result.

• Origin server check result.

| Report ID 4t13cc5c Diagnosis URL Area Mainland Chine ① Diagnosis Time 2020-04-24 11:41:29 Diagnosis Result Overview Of Get User Information ODS Checking ODS Checking | | | | |
|--|---------------------------------|--------------|------------------|--|
| Area Mainland China (1) Diagnosis Time 2020-04-24 11:41:29 Diagnosis Result Overview | Report ID 4f13cc5c | | | |
| Diagnosis Time 2020-04-24 11:41:29 Diagnosis Result Overview | Diagnosis URL | | | |
| Diagnosis Result Overview | Area Mainland China (| D | | |
| | Diagnosis Time 2020-04-24 11:41 | 29 | | |
| | | ONS Checking | O CNAME Checking | |
| | Get User Information | | | |
| | | | | |

3. The third part elaborates on the diagnosis results.

Section 1. Client information

Information such as client IP, district/ISP, and User-Agent, referer, and request method of the initiated HTTP/HTTPS request are obtained. Without the client information, some subsequent checks cannot be conducted.

| 🔻 🥑 Get | t User Infor | mation | Collapse |
|-----------|--------------|---|----------------|
| Client IP | р | 5 | |
| Region | | | |
| Request | | User-Agent : Mozilla/5.0 (Win Request URI Referer : http://cdn.cloud.tencent.com/self_dia Request Method : GET | 94d9f931adaf10 |

Section 2. DNS check

The client's DNS IP is collected and checked against the client IP, to determine whether exceptions in local DNS configuration are causing issues in scheduling requests to the optimal cache nodes.

| Diagnosis result d | Diagnosis result details | | | | | | | |
|--------------------|--------------------------|-----------|--|--|--|--|--|--|
| Diagnosis item | 15 | Operation | | | | | | |
| 🕨 🔗 Get User Ir | oformation | Expand | | | | | | |
| 🔻 🥑 DNS Check | sing | Collapse | | | | | | |
| DNS IP | | | | | | | | |

Section 3. CNAME check

The CNAME configuration of the domain name is obtained. The CNAME resolution of the domain name needs to be configured with the correct domain name suffixed with *.cdn.dnsv1.com (default); otherwise, requests will be unable to reach CDN nodes.

| Diagnosis result details | |
|--|-----------|
| Diagnosis items | Operation |
| ► 🕑 Get User Information | Expand |
| ▶ 🕑 DNS Checking | Expand |
| ▼ 🕑 CNAME Checking | Collapse |
| Resolution Configuration CNAME m.cdn.dnsv1.com | |

Note :

If CNAME configuration check fails, the requests will not reach CDN nodes and subsequent diagnoses will not be conducted.

Section 4. Network linkage check

Multiple websites are checked locally to obtain the client's network status. If a website cannot be accessed due to local proxy configuration, the network linkage check will fail, and subsequent diagnoses will not be conducted.

| Diagnosis result details | |
|------------------------------|-----------|
| Diagnosis items | Operation |
| ▶ 🧿 Get User Information | Expand |
| ▶ ⊘ DNS Checking | Expand |
| ► 🕑 CNAME Checking | Expand |
| ▼ 📀 Network Linkage Checking | Collapse |
| Probe Delay 363ms | |

Section 5. Access node check

After a client request reaches a CDN node, node information will be collected, including node IP, node district/ISP, status code returned by node, hit status, and resource MD5.

- If a resource has already been cached on a CDN node, it will directly be hit, and origin-pull node check will not be conducted.
- In case of a cache miss, origin-pull node check will be conducted.
- If the status code returned by the URL is 301, 302, or 504, node check information will not be obtained, and the subsequent checks will not be conducted.
- If an ACL has been configured for the domain name, the access node will directly return 403, and the hit status is hit.

| | Node IP | 121.12.122.16 | |
|---|-------------|---|----------|
| | Region | | |
| | Status Code | 512 | |
| | File MD5 | | |
| | Hit or not | Node hit | |
| | Solution | Please check your origin server timeout settings and try again. | |
| • | 🕑 Intermed | iate Node Checking | Collapse |
| | Hit or not | | |

Section 6. Origin-pull node check

i. If the resource is directly returned by a CDN node, the hit status of both the access node and the origin-pull node is **hit**, and CDN will proceed to check the origin server to help check whether the status codes and contents

returned from the origin server are the same as those of the node.

| ▼ 📀 Intermediate Node Checking | Collapse |
|--------------------------------|----------|
| Hit or not | |

ii. If the resource is not directly returned by a CDN node, the hit status of both the access node and the origin-pull node is **missed**, and the contents will be returned by the origin server.

| * 🕗 Intermediate Node Checking | Collapse |
|-------------------------------------|----------|
| Node IP | |
| Region | |
| Hit or not | |
| Origin Checking | Collapse |
| Origin IP 1 | |
| Region | |
| Origin Domain coscq.myqcloud.com | |
| Status Code 200 | |
| File MD5 4d3afa931 le2823 | |

iii. If an exceptional status code is generated at this time, you can compare the origin server status code and file MD5 value against those returned by the access module to determine whether the exception is caused by a CDN node or by the origin server, and then fix the problem accordingly.

Note :

If the diagnostic report cannot help you solve the problem, please submit a ticket or contact Tencent Cloud technical support.

Content Compliance

Last updated : 2020-12-28 11:32:32

Feature Overview

Contents delivered through Tencent Cloud CDN must be compliant with the related laws and regulations. Restricted contents will be banned. You can check these contents and more details in **Content Compliance** page.

View Configuration

Log in to the CDN console and select Inspect Tool -> Content Compliance.

| Content Compliance | | Content Compliance Instructions 🖾 |
|--|--|---|
| The content on CDN must be compliant with the Chinese national laws and regulations. If you have | any non-compliant content on the publi | c delivery network, the Tencent Cloud compliance team will handle it. |
| Today Yesterday Last 7 Days Last 30 days 2020-11-15 ~ 2020-12-14 | | Enter URL keyword to search. |
| URL | Reason | Time |
| | No data yet | |
| Total items: 0 | | 10 ▼ / page H < 1 /1 page > H |

Quota Management

Last updated : 2022-04-26 13:14:37

Overview

Quota management is a feature that enables you to view and manage quotas in the CDN console. The following quota types can be requested on a temporary or permanent basis: URL purge quota, directory purge quota, and URL prefetch quota.

Use Cases

- **Temporary quota** is a quota that can be applied on a temporary basis and used within a validity period. When it expires, the quota type will end up as permanent.
- **Permanent quota** is a quota that can be used for an indefinite period. As the permanent quota application takes a long time to process, we recommend requesting a temporary quota to meet your needs.

Operation Guide

Viewing quotas

To view quotas, log in to the CDN console, and then select Quota Management > Quota Details on the left sidebar.

| overage Area Global | ¥ | | | | | | | Enter the quota nan 🛛 🔍 🦿 |
|-----------------------|--------------------------|------------------|-----------------|-----------------|---------------|-------------|--------------|------------------------------|
| Quota name | Description | Coverage Area | Permanent quota | Temporary quota | Current quota | Used amount | Unit | Operation |
| Quota of URL purge li | Daily URL purge limit | Chinese Mainland | 10000 | - | 10000 | 0 | PCS | Apply Application records |
| Quota of URL purge li | Daily URL purge limit | Overseas | 10000 | | 10000 | 0 | PCS | Apply Application records |
| Quota of directory pu | Daily directory purge I | Chinese Mainland | 100 | - | 100 | 0 | PCS | Apply Application records |
| Quota of directory pu | Daily directory purge I | Overseas | 100 | | 100 | 0 | PCS | Apply Application records |
| Quota of URL prefetch | Daily URL prefetch limit | Chinese Mainland | 1000 | - | 1000 | 0 | PCS | Apply Application records |
| Quota of URL prefetch | Daily URL prefetch limit | Overseas | 1000 | | 1000 | 0 | PCS | Apply Application records |
| Total items: 6 | | | | | | 10 | ▼ / page 🛛 🕅 | ▲ 1 /1 page ▶ ₩ |

Note :

- **Current quota** indicates the maximum limit. If you have more than one temporary quotas, the current quota will be the maximum of all your quotas.
- The temporary quota takes effect between 00:00-24:00 (UTC+8). After it expires, the quota type will turn permanent.
- URL purge quota, directory purge quota and URL prefetch quota all take effect on a daily basis and reset every day at 00:00 (UTC+8).
- Quotas for regions in and outside the Chinese mainland are independent of each other and need to be applied separately.

Applying for quotas



To apply for a quota, click **Apply**. Complete and submit the application form.

| Quota applicatio | on X | | | | |
|--------------------------|--|--|--|--|--|
| Quota name | Quota of URL purge limit | | | | |
| Quota description | Daily URL purge limit | | | | |
| Coverage Area | Chinese Mainland | | | | |
| Used amount | 0 | | | | |
| Increase Quota * | 10001 Range: [10001, 10000000] | | | | |
| Quota type * | Temporary quota 💌 | | | | |
| Validity period * | 2022-04-18 ~ 2022-04-19 | | | | |
| Reason * | For temporary quotas, the maximum validity period is 90 days, and the maximum application period is 7 days. Once your temporary quota runs out, the quota type will end up as permanent. | | | | |
| | Submit Cancel | | | | |

Note :

- A temporary quota must be between a permanent quota +1 and 10000000.
- For temporary quotas, the maximum validity period is 90 days, and the maximum application period is 7 days.
- To request a quota successfully, you are encouraged to set an appropriate quota value and state the reason for your application.



Viewing application records

To view your application records, click **Application records** on the **Quota Details** page, or select **Quota Management > Application Records** on the left sidebar.

| Application time 202 | 22-03-20 ~ 2022-04-18 | | | | | | | Enter the quota nan 🛛 🔾 🗘 |
|-----------------------------------|-----------------------|----------------|-----------------|-----------------------|-----------|--------------------|-------------------|---------------------------|
| Quota name | Coverage Area | Increase Quota | Quota type | Validity period | Status | Application result | Application time | Approval comment |
| Quota of directory purge limit | Overseas | 101 | Temporary quota | 2022-04-18-2022-04-19 | - | Pending approval | 2022-04-18 12:05 | |
| Quota of URL purge limit | Chinese Mainland | 10001 | Temporary quota | 2022-04-18-2022-04-19 | Activated | Passed | 2022-04-18 12:05 | Application is approved |
| Total items: 2 | | | | | | | 10 ▼ / page 🛛 🖌 🔺 | 1 / 1 page 🕨 🕨 |

Note :

- When the application result is **Passed**, your application is accepted. If you failed to apply for a permanent quota, you can change your quota limit and reason for application before submitting again, or request a temporary quota instead.
- When a temporary quota expires, it is no longer valid, and the quota type will turn permanent, or stay temporary if you still have other valid temporary quotas.

Offline Cache

Last updated : 2022-09-29 17:56:27

Overview

When your origin fails and resources cannot be pulled from it normally, if offline cache is enabled, the content cached in CDN can be used.

- If there is cached content on nodes, it will be returned. Even if the hit content has expired, it will still be returned until the origin server recovers to resume normal origin-pull.
- If there is no cached content on nodes, an error message indicating that the origin server fails will be returned.

Note:

- Offline cache is supported only for acceleration domain names in the Chinese mainland.
- This feature may be unavailable in some platforms. We will complete server upgrade as soon as possible.

Directions

Viewing the configuration

Offline cache is disabled by default. You can enable it as needed.