CDN

Getting Started

 Issue
 20

 Date
 2024-05-16





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Domain Name Requirements

Table 1-1 lists requirements for domain names that require Content DeliveryNetwork (CDN) acceleration.

| Service Area | Requirement | |
|-----------------------------|---|--|
| Chinese mainland | Your HUAWEI ID has completed real-name authentication. | |
| | The domain name has been licensed by the Ministry of Industry and Information Technology (MIIT) and the Internet Content Provider (ICP) license is still valid. | |
| | • The domain name has passed content moderation. | |
| Outside Chinese mainland | The domain name has passed content moderation. | |
| Global | • Your HUAWEI ID has completed real-name authentication. | |
| | The domain name has been licensed by the MIIT and the ICP license is still valid. | |
| | • The domain name has passed content moderation. | |

Table 1-1 Domain name requirements

NOTE

Outside Chinese mainland indicates countries and regions other than the Chinese mainland. Hong Kong (China), Macao (China), and Taiwan (China) are included.

CDN does not support the access of websites that violate related laws and regulations, including but not limited to:

- Websites that contain pornographic content or content related to gambling, illegal drugs, frauds, or infringement
- Gaming websites that run on illegal private servers

- Websites that provide pirated games/software/videos
- P2P lending websites
- Unofficial lottery websites
- Unlicensed hospital and pharmaceutical websites
- Inaccessible websites or websites that do not contain any substantial information

D NOTE

- If your domain name content violates related laws and regulations, you shall bear the related risks.
- If any pornographic content or content related to gambling, illegal drugs, or frauds is found on your domain name, the domain name and other domain names that use the same origin server will be deleted from CDN and can no longer access CDN. Acceleration domain name quota of the account will be reduced to 0.
- Whether a domain name needs to be licensed does not depend on the region of the domain name provider or the area where the website server is. All that matters is the service area of your domain name. If your service area is **Chinese mainland** or **Global**, your domain name must be licensed by the MIIT before being added as an acceleration domain name.
- There is no limit on the domain name server (DNS) provider.
- Root domain name and common domain names need to be added to the CDN console separately for acceleration.

2 Overview

2.1 Before You Access CDN

Before using CDN acceleration, learn about concepts of acceleration domain name and origin server, billing, security, and how to verify the acceleration effect. This helps you quickly enable and use CDN.

Domain Name and Origin Server

Prepare a domain name for acceleration and an origin server (service server) based on the domain name admission conditions, content moderation requirements, and domain name description in the **Restrictions**.

Billing Options

Understanding CDN billing details helps you select a proper billing option when enabling CDN to reduce costs. Huawei Cloud CDN billing includes a basic service fee and additional fee for value-added services.

- The basic service fee is charged based on traffic or bandwidth generated when users access CDN points of presence (PoPs).
- The value-added service fee is charged based on the number of whole site acceleration requests.

| Billing Item | Billed By | Description |
|-------------------------|-----------|--|
| Basic service fee | Traffic | • Suits you if your domain name traffic curve fluctuates greatly, bandwidth usage is always less than 30%, and the bandwidth has a peak. |
| | | You can buy traffic packages of appropriate specifications to save money. For details, see Prepaid Traffic Packages. |

Table 2-1 Billing options

| Billing Item | Billed By | Description |
|-----------------------------------|--|---|
| | Peak bandwidth | Suits you if your domain name's daily bandwidth usage is always greater than 30% and the traffic curve is stable. |
| | | Requires account top-ups. The monthly usage fee will be deducted from your account balance. |
| | | Submit a service ticket to request this billing option. |
| | 95th percentile bandwidth | Suits you if your service traffic is heavy and your monthly expenditure will be greater than \$15,000 USD. Contact your account manager and request |
| | Average daily peak bandwidth | these billing options. |
| Value- added service fee | Whole site acceleration requests | If you use whole site acceleration, you will be charged by the number of requests. |

Resource Type and Service Type

CDN caches content to speed up content delivery. It caches static resources to CDN PoPs so that users can get the resources from the nearest PoP. Whole site acceleration speeds up the transmission of dynamic and pseudo-static resources through network routing.

| Table 2-2 | Resource | types |
|-----------|----------|-------|
|-----------|----------|-------|

| Resourc e Type | Description |
|-------------------|--|
| Static | The same file is obtained for each access. Examples: images, videos, files (HTML, CSS, and JS) on websites, software installation packages, APK files, and compressed packages |
| Dynamic | Different files are obtained for each access. Example: files (ASP, JSP, PHP, PERL, and CGI) on websites, APIs, and database interaction requests |
| Pseudo- static | Pseudo-static resources, such as HTML files, appear to be static on websites, but are actually processed using dynamic scripts such as ASP. Pseudo-static resources are essentially dynamic and are processed as dynamic content. |

CDN provides four service types. Select a service type based on the resource characteristics of your website to achieve better acceleration.

| Table | 2-3 | Service | types |
|-------|-----|---------|-------|
| iubic | 2 3 | Scivice | Cypes |

| Service Type | Scenario |
|---------------------------|---|
| Website | Web portals, e-commerce platforms, news apps, and user generated content (UGC)-focused apps |
| File downloa d | Download clients, game clients, app stores, and websites that provide download services based on HTTP or HTTPS |
| On- demand services | On-demand video/audio services, such as online education websites, video sharing websites, TV VOD platforms, and music and video apps |
| Whole site | Websites that consist of both dynamic and static content and for sites with abundant ASP, JSP, or PHP requests |

Service Area

CDN provides three service areas. Select one based on the distribution of your end users to improve user experience.

| Service Area | Acceleration Effect | Scenario | |
|--------------------------------|---|---|--|
| Chinese mainland | All user requests are scheduled to PoPs in the Chinese mainland. | Users are centrally distributed in the Chinese mainland. | |
| Outside Chinese mainland | All user requests are scheduled to PoPs outside the Chinese mainland. | Users are centrally distributed outside the Chinese mainland. | |
| Global | User requests are scheduled to the optimal CDN PoP nearby. | Users are distributed around the world. | |

D NOTE

- **Outside Chinese mainland** indicates countries and regions other than the Chinese mainland. Hong Kong (China), Macao (China), and Taiwan (China) are included.
- The service area of a domain name has nothing to do with the origin location. You can choose the service area that suits your services best.

(Optional) Security

If your website has high security requirements, configure security settings to prevent malicious traffic or attacks.

| Function | Description |
|------------------------------|---|
| HTTPS certificate | Enable HTTPS acceleration to encrypt requests between clients and CDN PoPs, securing data transmission. |
| Access control | Identity and filter visitors using referer validation, IP address access control lists (ACLs), token authentication, and User- Agent ACLs, restrict access sources, and prevent malicious traffic and attacks. |
| Interconnecti on with WAF | Associate Huawei Cloud CDN with Web Application Firewall (WAF) to accelerate websites and defend against web attacks. |

Acceleration Effect Evaluation

You can use a third-party dialing test tool to test the response speed of websites. The test method is as follows:

- 1. Test the response speed of accessing a resource after CDN acceleration is used.
- 2. Test the response speed of accessing the same resource directly from the origin server.
- 3. Compare the preceding two data.

Important notes:

- 1. If you test the access to an uncached resource, CDN needs to pull it from the origin server. Accessing it through CDN will be more time-consuming. Use a cached resource for test.
- 2. This solution is used for qualitative analysis on the acceleration effect. If you require professional evaluation, contact professional analysis platforms (such as Tingyun and Bonree).

NOTE

• This solution is for reference only. The final interpretation and copyright belong to third-party websites used for testing. The websites do not belong to Huawei Cloud. Please be careful when visiting them.

2.2 Access Process

Access Process

This section describes how to use CDN and how to select CDN billing options. If you are using Huawei Cloud CDN for the first time, you can quickly enable CDN by following the procedure described in this section to accelerate your content delivery.

Figure 2-1 describes the process of using CDN.

Figure 2-1 Process



For details about each step, see Table 2-4.

Table 2-4 Access procedure

| No. | Step | Description |
|-----|--|--|
| 1 | Enabling CDN | Enable CDN. |
| 2 | Adding a Domain Name | If you want to use CDN to accelerate your site, add the domain name of the site and configure origin details. CDN caches origin content on points of presence (PoPs) so that your content loads faster. |
| 3 | (Optional) Testing a Domain Name | Test your domain name before adding a CNAME record to the domain's DNS records to ensure that your domain configurations are correct. |
| 4 | Configuring a CNAME Record • Adding a CNAME Record on Huawei Cloud DNS | If you have added a domain name, the system automatically assigns a CNAME record to it. The CNAME record cannot be accessed directly. Add this CNAME record to your domain's DNS records and point the domain name to it. Then requests for your domain name will be redirected to CDN PoPs for acceleration. The CNAME configuration method varies depending on the DNS provider. |
| 5 | Checking Whether the CNAME Record Has Taken Effect | The length of time before the CNAME record takes effect depends on the DNS provider. You can check whether the CNAME record has taken effect by yourself. |

Billing Options

When enabling CDN, you can choose to be billed by traffic or peak bandwidth. For details about the billing options and examples, see **Billing**.

By traffic

If you choose traffic-based billing:

- You are billed by the traffic used per hour.
- You can buy a CDN traffic package to get more savings. For details about traffic packages, see **Prepaid Traffic Packages**.

By peak bandwidth

You are billed by the daily peak bandwidth.

3 Enabling CDN

Enable CDN before you use it. This section describes how to enable CDN.

Prerequisites

• You have registered a HUAWEI ID and have specified a payment method.

You need to complete real-name authentication when you:

- Purchase and use cloud services on Huawei Cloud PoPs in the Chinese mainland. Real-name authentication is required by the laws and regulations in the Chinese mainland.
- Purchase a cloud service whose region includes Chinese mainland.

Precautions

• You can enable and use CDN in traffic-based billing. To do so, buy a CDN traffic package, refresh the page of enabling CDN, and enable CDN.

Procedure

- Log in to Huawei Cloud console. Choose Service List > Content Delivery & Edge Computing > Content Delivery Network.
- 2. Click **Enable Now**.
- 3. Click Enable Now.

| Content Delivery Network (CDN) | |
|--|---|
| Content Delivery Network (CDN) accelerates content delivery to Learn more | edge nodes 50 that your websites load faster. |
| | |
| Billed by traffic Select this option if your site's traffic flow cannot be predicted. | |
| Pay only for what you use. You can buy economical traffic packages. Tiered pricing. Buy more, save more. | |
| Note: If your expenditure on CDN is or will be greater the | n \$15,000 USD per morth, contact your account manager and apply for billing by 95th percentile bandwidth, or everage daily peak bandwidth. For details about CDN billing, see CDN Pricing Details. |
| Enable Now | |
| | |



If you want to use CDN to accelerate your business, add the domain name of your site to CDN. CDN caches origin content on PoPs so that your content loads faster.

Preparations

- Enable CDN for your account by referring to **Enabling CDN**.
- Prepare a domain name for acceleration and an origin server (service server) based on the domain name admission conditions, content moderation requirements, and domain name description in the **Restrictions**.

Procedure

 Log in to Huawei Cloud console. Choose Service List > Content Delivery & Edge Computing > Content Delivery Network.
 The CDN console is displayed.

The CDN console is displayed.

- 2. In the navigation pane, choose **Domains**.
- 3. On the **Domains** page, click **Add Domain Names** and specify domain parameters.

Figure 4-1 Adding a domain name

| < Add Domain Names | | Add Domain Names - | 2 Recommended Config | - 3 Configure | CNAME |
|---|---|--------------------|--|---------------|---|
| Domain Information | | | | | |
| Online Transmission Obtain Drives method Obtain The prior wave depending on the waves wave. View Press If the service wave achieves methods on these methods. The choice (UCF) for the wave the service areas on the choice (UCF) acceleration for your domain name 8 hours take after competence | is must be licensed by the Ministry of Industry and Informs filter system of the MITT has a data delay Configure CDN g CP King. | ation X | | | |
| Domain Names | | | | | |
| Www.example.com Add Domain Names Available for addition: 19 | | | | | |
| Service Type | | | | | |
| Website For websites with many images and small files, such as portain and e-commerce websites | File download For large files, such as apps in app stores and game | e clients | In-demand Services or video on demand (VOD) websites and online educ absites | ation 5 | Whole site For website with both dynamic and static content, such as online exam platforms, forums, and blogs |
| Origin Server Settings | | | | | |
| Origin Protocol HTTP HTTPS Same as user | | | | | |
| Origin Servers | | | | | |
| Type 0 Address 0 | Priority 0 HTTP | P port 🗘 | HTTPS port 0 | Host Header 0 | Operation |
| Add Drigin Server: Available for addition: 50 | | No data available. | | | |
| OK Carcel | | | | | |

| Table 4-1 Parameter des | scription |
|-------------------------|-----------|
|-------------------------|-----------|

| Parame ter | ltem | Description |
|---------------------------|------|---|
| Domain Names | - | • A domain name can contain up to 75 characters, including letters, digits, hyphens (-), and periods (.). |
| | | You can add up to 100 domain names under each account. |
| | | • CDN does not allow access from websites containing illicit content. For details, see "Content moderation" in Restrictions . The existing domain names connected to CDN are reviewed regularly. If a domain name involves any violations, the CDN acceleration service will be suspended for the domain name and other domain names in your account. |
| | | • If a domain name has been in the Disabled or Rejected state for more than 120 days, CDN starts the domain name deletion process and deletes the domain name records after confirmation. If CDN acceleration is required for the domain name, add the domain name again. |
| | | If a domain name has not been accessed for more than 180 days, CDN starts the domain name suspension process and disables CDN acceleration for the domain name after confirmation. |
| | | An acceleration domain name must be unique. |
| | | • You can add a domain name including a wildcard (*). For example, if you add *.test.com to CDN as an acceleration domain name and have it resolved to the CNAME provided by CDN, all of the level-2 domain names under *.test.com, such as a.test.com, will enjoy CDN acceleration by default. However, level-3 domain names (such as b.a.test.com) would not. |
| | | If you add a wildcard domain name to a particular account, you cannot add any of the level-2 domain names under that domain name to other accounts. |
| | | You will be billed for the acceleration service provided to all of the level-2 domain names under a wildcard domain name. If there are multiple level-2 domain names, billing will be based on the traffic generated by the wildcard domain name, not on each of the level-2 domain names. |
| Enterpri se Project | - | This parameter is only available if Huawei Cloud Enterprise Project Management Service is enabled. For details, see Enterprise Management User Guide. |

| Parame ter | ltem | Description | |
|--------------------|--|---|--|
| Service Area | Glob al | CDN schedules access requests from users around the world to the optimal PoP nearby. The domain name must be licensed by the MIIT. For details, see ICP License Service. | |
| | Chin ese main land | CDN schedules access requests from users around the world to PoPs in the Chinese mainland. The domain name must be licensed by the MIIT. For details, see ICP License Service. | |
| | Outs ide Chin ese main land | CDN schedules access requests from users around the world to PoPs outside the Chinese mainland. The domain name does not need to be licensed by the MIIT. | |
| Service Type | Web site | CDN is perfect for web portals, e-commerce platforms, news apps, and user generated content (UGC)-focused apps. The cache format includes but is not limited to .zip, .exe, .wmv, .gif, .png, .bmp, .wma, .rar, .jpeg, and .jpg. | |
| | File dow nloa d | CDN is useful for download clients, game clients, app stores, and websites that provide download services based on HTTP or HTTPS. | |
| | On- dem and Servi ces | CDN accelerates delivery of on-demand services, such as online education, video sharing, music or video on demand, and other audiovisual content. | |
| | Who le site | CDN is a good option for websites that consist of both dynamic and static content and for sites that involve a large number of ASP, JSP, or PHP requests. | |
| Origin Protocol | - | Protocol used by CDN PoPs to pull content from the origin server. HTTP HTTPS (Ensure that the origin server supports HTTPS access.) Same as user: The origin protocol is the same as the client access protocol. For example, if a client accesses CDN using HTTP, CDN also uses HTTP for origin pull. | |

4. In the **Origin Server Settings** area, click **Add Origin Server** to add an origin server for the domain names.

Figure 4-2 Adding an origin server Add Origin Server

| Type Protect Private P | Ensure that occur. | you configure the origin server cor | rectly. Otherwise, retrieval failures will X |
|--|---|---|--|
| IP address Domain name OBS bucket Address Enter up to 50 IP addresses separated by commas (,). Priority Primary Origin Server Standby Origin Server Primary Origin Server Standby Origin Server The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Туре | | |
| Address Enter up to 50 IP addresses separated by commas (,). Priority Primary Origin Server Standby Origin Server The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | IP address | Domain name OBS bucket | |
| Enter up to 50 IP addresses separated by commas (,). Priority Primary Origin Server Standby Origin Server The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header Www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Address | | |
| Priority Primary Origin Server Standby Origin Server The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Enter up to 50 I | P addresses separated by commas | (,). |
| Primary Origin Server Standby Origin Server The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HOST Header Www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Priority | | |
| The primary origin has a higher priority than the standby origin. If the primary origin is faulty, CDN pulls content from standby origin. Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Primary Origin S | erver Standby Origin Server | |
| Origin Ports HTTP port Default value: 80 HTTPS port Default value: 443 Host Header WWW.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | The primary origin has standby origin. | is a higher priority than the standby origin | n. If the primary origin is faulty, CDN pulls content fro |
| HTTP port Default value: 80 HTTPS port Default value: 443 Host Header WWW.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Origin Ports | | |
| Host Header www.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | HTTP port Defa | ult value: 80 HTTPS po | nt Default value: 443 |
| WWW.example.com Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Host Header | | |
| Domain name of the site accessed by CDN nodes when retrieving content. Learn more By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | www.example.c | om | |
| By default, the host is your acceleration domain name. Change it to the actual site for origin pull. For example, if your origin server is the domain name of an object storage bucket, set the host header to the bucket domain name. | Domain name of the | site accessed by CDN nodes when retrie | ving content. Learn more |
| | By default, the host i your origin server is | s your acceleration domain name. Chang he domain name of an object storage but | e it to the actual site for origin pull. For example, if cket, set the host header to the bucket domain name |
| | | | |

| | _ | | _ |
|----|---|--------|---|
| ОК | | Cancel | |
| | | | 2 |

| Table 4-2 | Parameters |
|-----------|------------|
|-----------|------------|

| Paramet er | Description |
|---------------|--|
| Туре | IP address CDN PoPs access the IP address directly to pull origin content. If multiple IP addresses are configured, CDN uses the load balancing mechanism to pull content from the origin server. |
| | Domain name Enter up to 250 characters. An origin domain cannot be the same as an acceleration domain name. You can also enter the domain name of an object storage bucket. NOTE You cannot use private object storage buckets as origin servers when you set Type to Domain name. If you use an object storage bucket as your origin server, the object storage service will charge the CDN origin pull traffic based on its billing standards. |

| Paramet er | Description |
|---------------|--|
| | OBS bucket Select an OBS bucket domain name under your account or |
| | customize one. OBS charges the CDN origin pull traffic based on the billing standard for outgoing Internet traffic. If you set a bucket of OBS 3.0 or a later version as the origin server, you can purchase OBS pull traffic packages to deduct origin pull traffic. For details, see OBS Billing for CDN Acceleration . |
| | Notes: |
| | If your OBS private bucket is unsuitable as an origin for your domain name, do not set the private bucket as the origin server. |
| | If you enter a custom OBS bucket domain name, the origin domain name must end with .myhuaweicloud.com or .myhuaweicloud.cn. |
| | If an OBS private bucket is configured as an origin server, enable OBS authorization and select the Private bucket checkbox. Otherwise, origin pull will fail. |
| | To use a custom OBS private bucket as the origin server, configure a policy for the private bucket. For details, see Configuring a Policy for a Custom OBS Private Bucket. |
| | 5. If you have enabled static website hosting for your OBS bucket, select the Static website hosting checkbox when adding a domain name. In this way, the list of all files in the bucket will not be displayed when users access the bucket. |
| | 6. When back-to-source by mirroring is configured on OBS and range requests are enabled on CDN, if the mirror origin server does not comply with the RFC Range Requests standard, the response to range requests is not 206 and CDN fails to pull content. In this case, submit a service ticket. |
| Address | Address accessed by CDN PoPs during origin pull. |
| Bucket | This parameter is mandatory when Type is set to OBS bucket. Public bucket: public read. All users can read objects in the bucket. Private bucket: Only users granted permissions by the ACL can access the bucket. |
| Priority | The origin server can be primary or standby. The priority of the primary origin server is higher than that of the standby origin server. CDN PoPs preferentially pull content from the primary origin server. If the primary origin server is faulty, CDN PoPs pull content from the standby origin server. Configure at least one primary origin server. |

| Paramet er | Description | | |
|-----------------|--|--|--|
| Origin Ports | Port numbers for CDN PoPs to pull content. By default, the HTTP port is 80 and the HTTPS port is 443. | | |
| | If Type is set to OBS bucket, the port numbers cannot be changed. | | |
| Host Header | A host is specified in the HTTP request header. It is the domain name of the site accessed by CDN PoPs when CDN pulls content from the origin server. CDN obtains resources from the corresponding site based on the host details during origin pull. | | |
| | After a domain name is added, the default host will be the domain name. Change the host in a timely fashion if either of the following conditions is met: | | |
| | • If you set Type to Domain name and enter the domain name of an object storage bucket, set the host to the domain name of the object storage bucket. | | |
| | If you want CDN to pull content from a custom domain name, specify the host. For example, suppose an origin server is bound to two sites, www.origin01.com and www.origin02.com, and the domain name connected to CDN is www.example01.com. If you need CDN to pull content from www.origin02.com, you would need to set the host to www.origin02.com. | | |

- 5. Click **OK**. To add multiple origin servers, repeat **4**. You can add up to 50 origin servers.
- 6. After adding origin servers, click **OK** in the lower left corner of the page.

NOTE

- The configuration takes 5 to 10 minutes to take effect. When **Status** of the domain name becomes **Enabled**, the domain name has been added.
- If the CNAME status of a domain name is ¹, no CNAME has been configured for this domain name.

Recommended Configuration

You can also follow the instructions of **(Optional) Recommended Configurations** to configure cache rules, usage caps, and HTTPS certificates for domain names, to improve access performance, cache hit ratio, and access security and reduce high bill risks.

Configuring CNAME Resolution

After a domain name is added, the system automatically assigns a CNAME record to this domain name. The CNAME record cannot be accessed directly. You must **add the CNAME record** to your domain's DNS records. Then requests for your domain name will be redirected to CDN PoPs for acceleration.

5 Verifying the Domain Name Ownership

Scenario

When connecting a domain name to CDN for the first time, verify the ownership of the domain name through file upload or DNS record verification, to prevent the domain name from being maliciously added.

Precautions

- After you verify the ownership of a domain name, ownership verification is not required for its subdomains or this domain name if you add it to CDN again.
 - Example: If you have verified the domain name ownership when adding the domain name **b.a.com** to CDN, you do not need to verify the ownership of subdomains of **a.com**, such as ****.a.com** and *****.a.com**, when you add them to CDN.
- If you have verified the ownership of a domain name using account A, you
 must verify the ownership of this domain name again when adding it to CDN
 using account B.
- This topic is also applicable to the ownership verification of subdomains.

File Upload

Domain name test.example.com is used as an example.

1. When adding a domain name to CDN, verify the ownership of the domain name in scenarios similar to the following.

Figure 5-1 Verifying the domain name ownership

| test.example | e.com | | |
|-----------------|--|---------------------------------|--------|
| Verify the owne | ership of the domain name. View N | lethods | |
| DNS Record | File Upload | | |
| | | | |
| 1. Download | the verification file verification.htm | l. | |
| 2. Upload it t | to the root directory of example.con | n. | |
| 3. Ensure that | at the file can be accessed through | http://example.com/verification | .html. |
| 4. Click Verif | y to start verification. | | |
| Verify |] | | |

- 2. Select **File Upload**. Do not close the verification page before the verification is complete.
- 3. Click **verification.html** to download the file.
- 4. Upload the file to the root directory of your domain server.
- 5. Click Verify to verify the ownership of the domain name.

NOTE

Huawei Cloud CDN will access **http://example.com/verification.html** to obtain the verification file. If the system verifies that the obtained file is correct, the verification is successful. Ensure that the verification file is accessible.

DNS Record

Domain name test.example.com provided by Huawei Cloud DNS is used as an example.

1. When adding a domain name to CDN, verify the ownership of the domain name in scenarios similar to the following. Do not close the verification page before the verification is complete.

| Figure 5-2 | 2 Verifying | the | domain | name | ownership |
|------------|-------------|-----|--------|------|-----------|
|------------|-------------|-----|--------|------|-----------|

| test.example.com | | | |
|---|-------------------------|------------------------------------|----------------------------------|
| /erify the ownership of the domain name. View Methods DNS Record File Upload | | | |
| | | | |
| 1. Add the following re | ecord set for the doma | ain name (example.com) to the | ecord sets of your DNS provider. |
| Name | Туре | Value | |
| cdn_verification | ТХТ | 2023 | ∌6a8f |
| 2. Wait until the TXT r provider. | resolution takes effect | . If it does not take effect for a | long time, contact your DNS |
| 3. Click Verify to start | verification. | | |
| Verify | | | |

- 2. Add a TXT record to the record sets of your DNS provider.
 - a. In the service list, choose **Networking > Domain Name Service**.

- b. In the navigation pane, choose **Public Zones**.
- c. Click **example.com**. In the upper right corner of the domain name details page, click **Add Record Set**.
 - Name: cdn_verification
 - Type: TXT
 - Value: Enter 32 characters, consisting of a date and a random UUID.

.example.ooidfpo.com (?) Name cdn_verification \star Туре TXT - Specify text records • ★ Line Default Ŧ ? 300 * TTL (s) 5 min 1 h 12 h 1 day ? "202 ia8f * Value ? ? Weight 1 It is recommended that you use TMS's predefined tag function to add the same tag to different cloud resources. View predefined tags ${\bf C}$ Tag To add a tag, enter a tag key and a tag value below. Enter a tag key Enter a tag value Add 10 tags available for addition. Description 0/255 Cancel ок

Figure 5-3 Adding a record set Add Record Set

- a. Click OK.
- 3. After the TXT resolution takes effect, return to the **Add Domain Names** page of the CDN console and click **Verify**.

D NOTE

- A new TXT resolution takes effect immediately. If it is modified, the modification takes effect 5 minutes later. The effective time depends on the DNS resolution time to live (TTL). The default TTL is 5 minutes.
- The configuration of other service providers, such as www.net.cn, DNSPod, Xinnet, or GoDaddy, is similar. You can verify the ownership of your domain name by referring to the preceding procedure.

6 (Optional) Testing a Domain Name

Test your domain name before adding a CNAME record to the domain's DNS records to ensure that your domain configurations are correct.

1. Ping the CNAME record for the domain name you added to obtain the IP address.

For this example, we assume that the added domain name is www.example.com, the generated CNAME record is www.example.com.c.cdnhwc1.com, and the IP address obtained by pinging www.example.com.c.cdnhwc1.com is 10.0.0.0

2. Edit the **hosts** file on the local PC.

If you use a Windows system, map the domain name www.example.com to the IP address 10.0.0.0 in the **hosts** file in the **C:\Windows\System32\drivers \etc** directory.

Figure 6-1 Testing the domain name

```
# Copyright (c) 1993-2009 Microsoft Corp.
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
# Additionally, comments (such as these) may be inserted on individual
ŧ
 lines or following the machine name denoted by a '#' symbol.

For example:
H
¥
      1 )7
                                               # source server
                       rhino. acme. com
Ĥ
       : 0
                       x. acme. com
                                               # x client host
¥
 localhost name resolution is handled within DNS itself.
                       localhost
       1
            1
        : 1
                       localhost
       10.0.0.0
                      www.example.com
```

3. Access your domain name to test services. If the test results meet your expectation, the configurations are correct.

4. Add a CNAME record to your domain's DNS records. For details, see **Configuring a CNAME Record.**

7 (Optional) Recommended Configurations

After adding an acceleration domain name, configure cache rules, smart compression, and secure acceleration to improve the cache hit ratio, optimize the acceleration effect, and enhance security.

Improving Cache Hit Ratio and Optimizing the Acceleration Effect

| Scenario | Configurati on Item | Description |
|--|--|--|
| The cache hit ratio is low and the acceleration | le cache t ratio is w and the celerationCache RulesSet a proper cache TTL and priority for different resources to improve the cache hit ratio, reduce origin pull ratio, and relieve the pressure on the origin server. | Set a proper cache TTL and priority for different resources to improve the cache hit ratio, reduce the origin pull ratio, and relieve the pressure on the origin server. |
| effect is not | | Notes: |
| obvious. | | The cache rule priority is an integer ranging from 1 to 100. A greater number indicates a higher priority. |
| | | If you modify or add a cache rule, purge the cache of the corresponding resource. |
| | | 3. Set the cache TTL of dynamic resources to 0 , so dynamic resources are not cached. Otherwise, access exceptions may occur. |
| | | 4. Check the cache settings on the origin server. If no-cache, private, or no-store is configured for a resource on the origin server and Origin Cache Control is enabled on the CDN console, CDN cannot cache the resource. CDN needs to pull the resource from the origin server each time it is requested. This does not achieve acceleration. |

| Scenario | Configurati on Item | Description |
|----------|--------------------------|---|
| | Range Requests | Configure range requests to accelerate distribution of large files during origin pull and reduce bandwidth consumption. |
| | | Range requests are enabled by default for download acceleration. |
| | | Check whether the origin server supports the Range header. |
| | Smart Compressio n | Compress static content on your websites to reduce the file size, speed up file transfer, and save bandwidth. |
| | | Smart compression includes gzip compression and Brotli compression. The performance of Brotli compression is 15% to 25% higher than that of gzip compression. |
| | | • With smart compression, CDN automatically compresses .js, .html, .css, .xml, .json, .shtml and .htm files. |
| | URL Parameters | Ignore URL parameters to improve the cache hit ratio and speed up content distribution. |
| | | If resources do not change with URL parameters, ignore the URL parameters. |
| | | If resources change with URL parameters, retain the URL parameters. |

Improving Website Security

| Scenario | Configuration Item | Description |
|------------------------------------|--|---|
| Improving security performan | HTTPS | Configure a Secure Sockets Layer (SSL) certificate to improve the domain name security. |
| се | Access Control | Identify and filter visitors to restrict their access and improve CDN resource security. |
| | Accelerating Resources Protected by WAF | Huawei Cloud CDN works with WAF to defend against web attacks during content delivery acceleration, providing a more secure acceleration experience. |

Reducing the Risk of High Bills

| Scenario | Conf igur atio n Item | Description |
|--|-----------------------------------|--|
| If your domain name is attacked or has malicious traffic coming, there may be sudden traffic spikes that result in a bill higher than your normal expenditures. CDN can help you reduce the risk of high bills. | Usa ge Cap | Set a usage cap so CDN will disable your domain name when the access bandwidth reaches the threshold you specify to avoid excessive fee. |

8 Configuring a CNAME Record

8.1 Overview

Background

If you have added a domain name, the system automatically assigns a CNAME record to it. The CNAME record cannot be accessed directly. You must add the CNAME record to your domain's DNS records. Then requests for your domain name will be redirected to CDN PoPs for acceleration.

What Is DNS Resolution?

When you use DNS for the first time, you may have some questions, such as "What is DNS resolution?", "Why is DNS resolution required?", "How is DNS resolution done?", and "What is an A record?". If you have similar questions, visit **Domain Name Service Help Center** to find the answers.

How Do I Add a CNAME Record?

If your DNS provider is Huawei Cloud, see Adding a CNAME Record on Huawei Cloud DNS.

DNS Conflicts

When you add a CNAME record, you may be informed of a DNS conflict, for example, an existing A record may conflict with the CNAME record, or an existing MX record may conflict with the CNAME record. For details, see Why Is a Message Indicating Conflict with an Existing Record Set Displayed When I Add a Record Set?

| - | NS | CNA ME | A | AAA A | МХ | тхт | PTR | SRV | CAA |
|-----|--------------------|-----------|--------|----------|--------|--------|--------|--------|--------|
| NS | No | Confli | No | No | No | No | No | No | No |
| | limit ^a | ct | limit | limit | limit | limit | limit | limit | limit |
| CNA | Conflic | No | Confli | Confli | Confli | Confli | Confli | Confli | Confli |
| ME | t ^b | limit | ct | ct | ct | ct | ct | ct | ct |
| А | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| AAA | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| MX | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| ТХТ | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| PTR | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| SRV | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |
| CAA | No | Confli | No | No | No | No | No | No | No |
| | limit | ct | limit | limit | limit | limit | limit | limit | limit |

Table 8-1 Restrictions between record types

a: NS record sets can be added for primary domains (for example, example.com). There are no restrictions on subdomains (for example, www.example.com).

b: For primary domains (for example, example.com), you can add CNAME record sets and NS record sets at the same time. However, CNAME record sets conflict with NS record sets for subdomains (for example, www.example.com), and therefore they cannot be added at the same time.

- **Conflict**: The two types of record sets cannot coexist in the same resolution line.
- No limit: The two types of record sets can coexist without restrictions.

Two common record set conflicts are:

- 1. A CNAME record conflicts with an A record.
 - How do I resolve this problem?
 - Delete the A record and then configure the CNAME record.
 - Do I need to keep the A record for my website so that it remains accessible?

As long as the CNAME record is configured, all client requests will be sent to CDN. In this case, you do not need to configure an A record.

For details about how the CNAME record works, see How CDN Works.

2. A CNAME record conflicts with an MX record.

For details, see Why Is a Message Indicating Conflict with an Existing Record Set Displayed When I Add a Record Set?

8.2 Adding a CNAME Record on Huawei Cloud DNS

If your domain name is resolved using the DNS service Huawei Cloud provides, then follow the steps in this section to add a CNAME record. **download.game-apk1.com** is used as an example.

Procedure

- Obtain the CNAME record of the domain name.
- Log in to Huawei Cloud console. Choose Service List > Content Delivery & Edge Computing > Content Delivery Network.

The CDN console is displayed.

2. In the navigation pane, choose **Domains**.

On the **Domains** page, copy the CNAME record **download.game-apk1.com**. ******.c.cdnhwc2.com** ****.

Figure 8-1 Obtaining the CNAME record

| Add Domain Names | Enable Disable | Delete Export | t ~ |
|------------------|---|----------------|-------------------------------------|
| All statuses | ✓ All service types | V Q Sele | download.game- |
| Domain Name | | Status \ominus | apk1.com. |
| download.game- | apk1.com | S Enabled | \rm download.game-apk1.com.0b6166 🗇 |

- Add the CNAME record.
- Log in to the management console and choose Service List > Networking > Domain Name Service.

The DNS console is displayed.

- In the navigation pane, choose Public Zones. The public zone list is displayed.
- 3. Click the domain name you want to add a record set to. In this example, the domain name is **game-apk1.com**.
- 4. Click Add Record Set in the upper right corner.

Figure 8-2 Adding a record set

Add Record Set

| Name | download | .game-apk1.com |
|---------------|--|--|
| | Enter the domain name prefix. If the domain name is example.com, on the prefix: Blank prefix: Traffic will be routed to example.com. Prefix "www": Traffic will be routed to www.example.com. Prefix "cdn": Traffic will be routed to cdn.example.com. Prefix "mail": Traffic will be routed to mail.example.com. Prefix "mail": Traffic will be routed to any subdomain of example.com. | , traffic will be routed depending |
| ★ Туре | CNAME – Map one domain to another | • |
| * Alias | 🔿 Yes 💿 No | |
| | Whether you want this record set to be used as an alias for a HUAN An alias supports second-level domain names. | NEI CLOUD service resource. |
| ★ Line | Default | • |
| | Default: returns the default resolution result if the system cannot ma ISP: routes end users to the optimum endpoint based on their carri- Region: routes end users to the optimum endpoint based on their g | atch any line. er network. eographic location. |
| 🗙 TTL (s) | 300 5 min 1 h 12 h | 1 day |
| | The length of time (in seconds) for which a local DNS server cache addresses change frequently, set TTL to a small value. | s a record set. If your service |
| * Value | download.game-apk1.com.0 3.c.cdnhwc2.com | |
| | | 4 |
| | Enter the domain name you want to resolve when the value in the t Example: www.example.com | Name field is queried. |
| Weight | 1 | |
| | The preparties of DNC quaries that will be routed to the record out | If a recolution line in a zone |
| | | OK Cancel |

5. Configure the parameters as instructed. **Table 8-2** describes the parameters.

Table 8-2 Parameter description

| Parameter | Parameter description | Example Value |
|-----------|-----------------------|---|
| Name | Domain name prefix | Name for www.huaweicloud.co m is www. |
| | | • Name for testcdn.huaweicloud.c om is testcdn. |

| Parameter | Parameter description | Example Value |
|-----------|--|--|
| Туре | Type of the record set NOTE A CNAME record cannot coexist with an A record. Otherwise, DNS resolution will fail. | CNAME – Map one domain to another |
| Line | Used when the DNS server is resolving a domain name. It returns the IP address of the server according to the visitor source. For details, see Resolution Line . | Default |
| TTL (s) | Cache duration of the record set on a local DNS server. If your service address changes frequently, set TTL to a smaller value. | Retain the default value. |
| Value | Domain name to be pointed to, that is, the CNAME record allocated by CDN | download.game- apk1.com.****c.cdnhwc2. com |
| Weight | If a resolution line in a zone contains multiple record sets of the same type, you can set different weights to each record set. For details, see Configuring Weighted Resolution . | - |

6. Click OK.

NOTE

• After the CNAME resolution takes effect, the status changes to e . However,

CNAME resolution may fail the verification and the status changes to \P , indicating that no CNAME record is configured for the domain name. If you have correctly configured the CNAME record, ignore the error message.

- A CNAME record takes effect immediately after being added. If you modify the CNAME record, then the change takes effect within 72 hours.
- If you encounter a resolution conflict, see DNS Conflicts.

9 Checking Whether the CNAME Record Has Taken Effect

The length of time before the CNAME record takes effect depends on the DNS provider. To check whether a CNAME record has taken effect:

Open the command line interface that comes with Windows and run the following command:

nslookup -qt=cname Acceleration domain name

If the CNAME record is displayed, the CNAME record has taken effect.



Now CDN acceleration has been enabled. For details about more settings, see **Domain Name Settings**.

10 FAQ

How Do I Do If the ICP License of an Acceleration Domain Name Expires?

You must apply for a new license from the MIIT.

- If a new license is obtained before the original one expires, your CDN service is not affected.
- If a license has expired and no new license has been obtained yet, CDN bans the domain name and changes its status to **Rejected**. After the new license is obtained, you can apply to unban the domain name on the CDN console. For details, see **Reviewing a Domain Name**.

Can a Level-2 Domain Be Accelerated If Only Its Level-1 Domain Name Is Licensed by the MIIT, but Its Level-2 Domain Name Is Resolved Outside the Chinese Mainland?

Yes. If the level-1 domain name has been licensed by the MIIT, the level-2 domain name does not need to be licensed. In addition, a domain name that requires acceleration services only outside the Chinese mainland does not need to be licensed by the MIIT.

Can I Use CDN If My Domain Name Is Not Licensed?

If the service area of your domain name includes **Chinese mainland**, obtain an ICP license from the MIIT before using CDN. If the service area of your domain name is **Outside Chinese mainland**, the ICP license is not required before using CDN.

Why Do I Get Request Timed Out When Trying to Ping an Acceleration Domain Name?

For security purposes, ping operations are not allowed. You can run the **nslookup** command to check whether CDN has taken effect. For details, see **Checking Whether the CNAME Record Has Taken Effect**.

How Do I Deploy CDN and WAF Together?

Resolve your acceleration domain name to CDN, and then change the origin address of your acceleration domain name to WAF's CNAME value. CDN forwards

the traffic to WAF. Then WAF filters out the illegitimate traffic and routes only the legitimate traffic back to your origin server. In this way, WAF protects CDN accelerated traffic.

To prevent other users from adding your domain name to WAF in advance (this will cause interference on your domain protection), you are advised to add a subdomain name and TXT record of WAF at your DNS provider.



For details, see **Domain Setup with Both CDN and WAF Deployed**.

What Are the Differences Between an Acceleration Domain Name and an Origin Domain?

- Acceleration domain names are provided by you for CDN acceleration. A domain name is an identification string that defines a realm of administrative autonomy, authority, or control within the Internet, such as a website, an email address, or an FTP server.
- An origin domain is the domain name of your origin server.

Can Multiple Acceleration Domain Names Use the Same Origin Server IP Address?

Yes. Different acceleration domain names can use the same origin IP address.

If a Domain Name Is Not Registered on the Chinese Mainland but Its CDN Service Area Is the Chinese Mainland, Is an ICP License Required for It?

Whether a domain name needs to be licensed does not depend on the region of the domain name provider or the area where the website server is. All that matters is the service area of your domain name. If the service area includes the Chinese mainland, the domain name must be licensed by the MIIT before being added as an acceleration domain name.

Can an Origin Domain Name Be the Same as an Acceleration Domain Name?

No.

When a user requests content on an acceleration domain name, if the desired content is not cached on CDN PoPs, CDN PoPs need to pull content from the origin server. If the origin domain is the same as the acceleration domain name, the user's request will be repeatedly directed to CDN PoPs, and CDN PoPs will not be able to pull content from the origin server.

Can Wildcards Be Used as Part of an Acceleration Domain Name?

Yes. A wildcard, *, allows multiple level-2 domain names to be included by the same value. All these secondary domain names point to the same IP address. If

you add ***.test.com** to CDN as an acceleration domain name and have it resolved to the CNAME provided by CDN, all of the level-2 domain names under ***.test.com**, such as **a.test.com**, will enjoy CDN acceleration by default. However, level-3 domain names (such as **b.a.test.com**) would not.

The following are the rules for adding wildcards to domain names:

- If you add a wildcard domain name to a particular account, you cannot add any of the level-2 domain names under that domain name to other accounts.
- You will be billed for the acceleration service provided to all of the level-2 domain names under a wildcard domain name. If there are multiple level-2 domain names, billing will be based on the traffic generated by the wildcard domain name, not on each of the level-2 domain names.

A Change History

| Released On | Description |
|-------------|---|
| 2023-06-26 | This issue is the twenty-fourth official release. |
| | • Released the new page for adding a domain name. |
| 2023-04-06 | This issue is the twenty-third official release. |
| | When using a private bucket as the origin server, you must select the Private bucket option. |
| 2023-03-24 | This issue is the twentieth official release. |
| | Removed section "Verifying the Origin Server." |
| 2022-11-28 | This issue is the nineteenth official release. |
| | When you add a domain name, you can specify an OBS bucket in South Africa, Mexico, and Brazil as the origin server. |
| 2022-10-26 | This issue is the eighteenth official release. |
| | Changed origin server verification in section "Adding an Acceleration Domain Name" to an independent section. |
| 2022-02-09 | This issue is the seventeenth official release. |
| | Updated "Enabling CDN." |
| 2021-05-14 | This issue is the sixteenth official release. |
| | This release incorporates the following change: |
| | Added origin server verification to section "Adding a Domain Name." |
| 2021-04-06 | This issue is the fifteenth official release. |
| | This release incorporates the following change: |
| | Whole site acceleration can be enabled on the CDN console. |

| Released On | Description |
|-------------|--|
| 2020-11-10 | This issue is the fourteenth official release. This release incorporates the following change: OBS buckets in Hong Kong (China), Singapore, and Bangkok can be connected to CDN as origin servers. |
| 2020-09-25 | This issue is the thirteenth official release. This release incorporates the following changes: Optimized the document structure. Added section "FAQ." Added section "Overview." |
| 2020-06-11 | This issue is the eleventh official release. This release incorporates the following changes: Removed the origin verification methods from "Step 3: Add a CDN Acceleration Domain Name." Optimized some descriptions. |
| 2020-04-10 | This issue is the tenth official release. This release incorporates the following changes: Added "Verifying Domain Ownership" in "Step 3: Add a CDN Acceleration Domain Name." Optimized some descriptions. |
| 2020-01-02 | This issue is the ninth official release. This release incorporates the following changes: Optimized the document structure. Added the origin verification methods in "Step 3: Add a CDN Acceleration Domain Name." Optimized some descriptions. |
| 2019-10-28 | This issue is the eighth official release. This release incorporates the following changes: Added the step of testing CDN in section "Accessing CDN." Optimized some descriptions. |
| 2019-09-24 | This issue is the seventh official release. This release incorporates the following changes: Added section "Overview." Optimized some descriptions. |

| Released On | Description |
|-------------|---|
| 2019-06-26 | This issue is the sixth official release. |
| | This release incorporates the following changes: |
| | Divided section "Quickly Accessing the CDN Service" into "Accessing CDN (Pay-per-Use)" and Accessing CDN (Yearly/Monthly)." |
| | Optimized some descriptions. |
| 2019-05-08 | This issue is the fifth official release. |
| | The modification is as follows: |
| | Combined "Enabling CDN", "Adding a CDN Acceleration Domain Name", and "Configuring CNAME" to "Quickly Accessing the CDN Service." |
| | Changed the method of verifying whether a CNAME takes effect. |
| | Moved "Configuring CNAME Records (Non-Huawei Cloud DNS)" to "Related Resources." |
| 2019-03-14 | This issue is the fourth official release. |
| | The modification is as follows: |
| | Optimized the document structure. |
| 2019-02-28 | This issue is the third official release. |
| | The modification is as follows: |
| | Optimized the document content. |
| 2018-12-28 | This issue is the second official release. |
| | The modification is as follows: |
| | Optimized description in section "Adding a Domain Name for Acceleration." |
| 2018-09-21 | This issue is the first official release. |