CDN

API Reference

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HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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1 Before You Start

Welcome to Content Delivery Network API Reference. Content Delivery Network (CDN) is an intelligent virtual network built on top of existing Internet infrastructure. Origin content is cached on nodes closer to end users so content can load faster. CDN speeds up site response and improves site availability, breaking through the bottlenecks caused by low bandwidth, heavy user access traffic, and uneven distribution of edge nodes.

This document describes how to use application programming interfaces (APIs) to perform operations on CDN, such as creating, deleting, and modifying an accelerated domain name. For details about all supported operations, see **API Overview**.

If you plan to access CDN through an API, ensure that you are familiar with CDN concepts. For details, see **Service Overview**.

API Calling

CDN supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see **Making an API Request**.

Additionally, CDN provides software development kits (SDKs) for multiple programming languages. For details about how to use SDKs, see **CDN SDKs**.

Endpoints

An endpoint is the **request address** for calling an API. CDN is a global-level service and does not have endpoint requirements. **Table 1-1** lists CDN endpoints. You can also query the endpoints of services on **Regions and Endpoints**.

Table 1-1 CDN endpoints

Region Name	Region	Endpoint
ALL	All regions	cdn.myhuaweicloud.com

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NOTE

If cdn.myhuaweicloud.com cannot be accessed, try cdn.myhuaweicloud.cn.

Constraints and Limitations

- The number of domain names that you can create and number of URLs to be refreshed and preheated are determined by your quota. For details, see **Quotas**.
- For more constraints, see API description.

Concepts

- Account

  An account is created upon successful registration with Huawei Cloud. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- IAM user

  An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

  The account name, username, and password will be required for API authentication.

- Region

  Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.

  For details, see **Region and AZ**.

- AZ

  An availability zone (AZ) contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

- Project

  Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each Huawei Cloud region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

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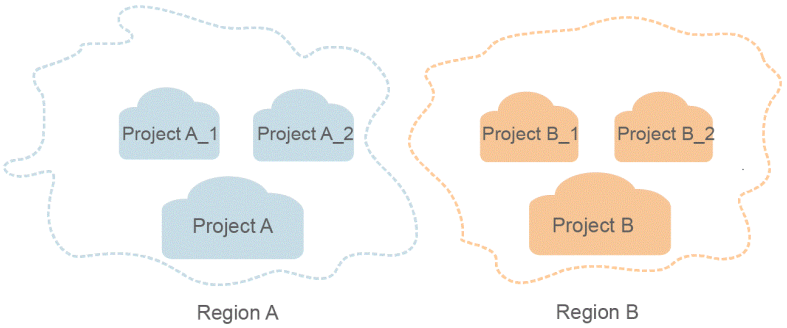
Figure 1-1 Project isolating model



- Enterprise Project

  Enterprise projects group and manage resources across regions. Resources in enterprise projects are logically isolated from each other. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.

  For details about how to obtain enterprise project IDs and features, see **Enterprise Management Service User Guide**.

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2 API Overview

CDN APIs allow you to use all CDN functions.

API Type	Description
Domain Name Operations	APIs for basic operations on domain names.
Domain Name Configuration	APIs for domain name configuration.
Cache Purge and Prefetch	APIs for cache purge and prefetch.
Analytics	APIs for statistics analysis.
Log Management	APIs for log management.
Billing Management	APIs for billing.
Quotas	API for querying quotas.
Out-of-Date APIs	Historical CDN APIs. Some APIs will be discarded in the future.

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3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API, and uses the IAM API for **obtaining a user token** as an example to describe how to call an API. The obtained token is used to authenticate the calling of other APIs.

Request URI

A request URI is in the following format:

{URI-scheme}://{Endpoint}/{resource-path}?{query-string}

Although a request URI is included in a request header, most programming languages or frameworks require the request URI be transmitted separately, rather than being conveyed in a request message.

Table 3-1 URI parameter description

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. CDN is a global-level service and region selection is not required. Obtain the endpoint of Identity and Access Management (IAM) in the **ALL** region from **Regions and Endpoints**. The endpoint of IAM in the **ALL** region is **iam.myhuaweicloud.com**.
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.

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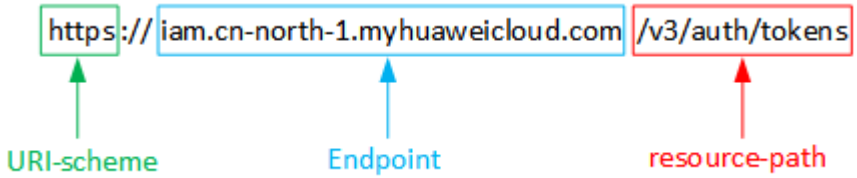
Parameter	Description
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "*Parameter name=Parameter value*". For example, **limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the **ALL** region, obtain the endpoint of IAM (**iam.myhuaweicloud.com**) for this region and the **resource-path** (**/v3/auth/tokens**) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.myhuaweicloud.com/v3/auth/tokens
```

Figure 3-1 Example URI



NOTE

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server.

Table 3-2 HTTP methods

Method	Description
GET	Requests the server to return specified resources.
PUT	Requests the server to update specified resources.
POST	Requests the server to add resources or perform special operations.
DELETE	Requests the server to delete specified resources, for example, an object.
HEAD	Same as GET except that the server must return only the response header.

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Method	Description
PATCH	Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to **obtain a user token**, the request method is **POST**. The request is as follows:

```
POST https://iam.myhuaweicloud.com/v3/auth/tokens
```

Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

Table 3-3 lists common request header fields.

Table 3-3 Common request header fields

Parameter	Description	Mandatory	Example
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of *Hostname:Port number*. If the port number is not specified, the default port is used. The default port number for HTTPS is 443.	No This field is mandatory for AK/SK-based authentication.	code.test.com or code.test.com:443

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Parameter	Description	Mandatory	Example
Content-Type	Specifies the request body MIME type. You are advised to use the default value **application/json**. For APIs used to upload objects or images, the value can vary depending on the flow type.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in **Obtaining a Project ID**. This parameter is mandatory for a request from a Dedicated Cloud (DeC) or multi-project user.	No This field is mandatory for requests that use AK/SK-based authentication in the DeC scenario or multi-project scenario.	e9993fc787d94b6c886cbaa340f9c0f4
X-Auth-Token	Specifies a user token. It is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication. After the request is processed, the value of **X-Subject-Token** in the header is the token value.	No This field is mandatory for token-based authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ

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> **NOTE**
>
> In addition to supporting token-based authentication, public cloud APIs also support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.
>
> For more information, see **AK/SK-based Authentication** in **Authentication**.

The API used to **obtain a user token** does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

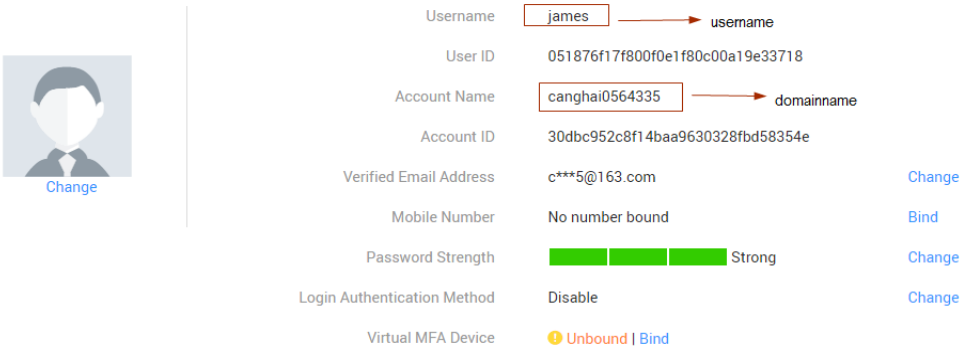
Request Body

The body of a request is often sent in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The request body transfers content except the request header.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to **obtain a user token**, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace ***username***, ***domainname*** (account name), ******** (login password), and ***xxxxxxxxxxxxxxxxx*** (project name) with the actual values. CDN is a project-level service. Set the project name to **cn-north-1**.

> **NOTE**
>
> The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see **Obtaining a User Token**.




```
POST https://iam.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

{
    "auth": {
        "identity": {
            "methods": [
                "password"
```

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```
        ],
        "password": {
            "user": {
                "name": "username",
                "password": "********",
                "domain": {
                    "name": "domainname"
                }
            }
        }
    },
    "scope": {
        "project": {
            "name": "cn-north-1"
        }
    }
  }
}
```

If all data required for the API request is available, you can send the request to call the API through **curl**, **Postman**, or coding. In the response to the API used to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. AK/SK-based authentication is recommended because it is more secure than token-based authentication.

Token-based Authentication

NOTE

- The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.
- Ensure that the token is valid when you use it. Using a token that will soon expire may cause API calling failures.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

When calling the API to **obtain a user token**, you must set **auth.scope** in the request body to **domain**.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": "********",
                    "domain": {
                        "name": "domainname"
```

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```
                }
            }
        }
    },
    "scope": {
        "domain": {
            "name": "domainname"
        }
    }
  }
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFG....**, **X-Auth-Token: ABCDEFG....** can be added to a request as follows:

```
POST https://iam.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

3.3 Response

After sending a request, you will receive a response, including a status code, response header, and response body.

Status Code

A status code is a group of digits, ranging from 1*xx* to 5*xx*. It indicates the status of a request. For more information, see **Status Codes**.

For example, if status code **201** is returned for calling the API used to **obtain a user token**, the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-type**.

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Figure 3-2 shows the response header fields for the API used to **obtain a user token**. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-2 Header fields of the response to the request for obtaining a user token

(Optional) Response Body

A response body is often returned in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API used to **obtain a user token**. For the sake of space, only part of the content is displayed here.

```
{
    "token": {
        "expires_at": "2019-02-13T06:52:13.855000Z",
        "methods": [
            "password"
        ],
        "catalog": [
            {
                "endpoints": [
                    {
                        "region_id": "az-01",
.....
```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```
{
    "error_msg": "The format of message is error",
    "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

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4 API

4.1 Domain Name Operations

4.1.1 Creating a Domain Name

Function

This API is used to add a domain name to CDN and configure an origin server for it. After the domain name is created and resolution is configured, CDN caches origin content to edge points of presence (PoPs) when users use the domain name to access origin content for the first time. When users access origin content next time, CDN serves content from the nearest edge PoP, speeding up user access.

- Enable the CDN service before creating an acceleration domain name.
- If the service area of the domain name includes Chinese mainland, it must be licensed by the Ministry of Industry and Information Technology (MIIT).
- A single tenant can call this API 20 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/domains

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Request Parameters

Table 4-1 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-2 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	**DomainBody** object	**Definition** Request body for creating a domain name, including required parameters. **Constraints** N/A

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Table 4-3 DomainBody

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **NOTE** If a wildcard domain name is added, all its secondary domain names support CDN acceleration by default. **Constraints** An acceleration domain name must be unique. **Range** • A domain name can contain up to 200 characters. • A domain name can contain only letters, digits, hyphens (-), and periods (.). It cannot start or end with a hyphen or period. • Wildcard characters (*) are supported. A wildcard domain name must start with a wildcard character (*). • Each domain name label (for example, *** in ***.***.com) can contain up to 63 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_type	Yes	String	**Definition** Service type of the domain name. **Constraints** N/A **Range** • **web**: website acceleration. • **download**: file download acceleration. • **video**: on-demand service acceleration. • **wholeSite**: whole site acceleration. **Default Value** N/A
sources	Yes	Array of **SourcesRequestBody** objects	**Definition** Origin server settings. **Constraints** N/A
service_area	No	String	**Definition** Service area of the domain name. **Constraints** If the service area is Chinese mainland or global, the domain name must be licensed by the MIIT. **Range** • **mainland_china**: Chinese mainland. • **outside_mainland_china**: outside the Chinese mainland. • **global**: global. **Default Value** mainland_china

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Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

Table 4-4 SourcesRequestBody

Parameter	Mandatory	Type	Description
domain_id	No	String	**Definition** Acceleration domain name ID, which is automatically generated by the system. You do not need to specify this parameter when creating a domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
ip_or_domain	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** Internal IP addresses are not supported. **Range** N/A **Default Value** N/A
origin_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. **Default Value** N/A

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Parameter	Mandatory	Type	Description
obs_bucket_type	No	String	**Definition** OBS pull authentication status. This function applies when an OBS bucket is used as an origin server. Enable the function if access to the bucket requires authentication. In this way, CDN PoPs carry the authentication information during origin pull. If the information does not match the OBS bucket, origin pull fails, preventing unauthorized traffic theft. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: enabled. • **public**: disabled. **Default Value** public
active_standby	Yes	Integer	**Definition** Whether the origin server is primary or standby. The primary origin server has higher priority than the standby origin server. CDN PoPs preferentially pull content from the primary origin server. **NOTE** • The default priority of the primary origin server is 70, and that of the standby origin server is 30. **Constraints** N/A **Range** • **1**: primary origin server. • **0**: standby origin server. **Default Value** N/A

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Parameter	Mandatory	Type	Description
enable_obs_web_hosting	No	Integer	**Definition** Whether to enable static website hosting. If your origin server is an OBS bucket with static website hosting configured on OBS, enable this function on CDN to allow clients to access hosted static websites. **NOTE** After this function is enabled, CDN adds the **website** field to the bucket origin server address. If the address already contains this field, this parameter does not take effect. **Constraints** Mandatory when the origin server type is set to **obs_bucket**. **Range** • **0**: disabled. • **1**: enabled. **Default Value** 0
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443

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Response Parameters

Status code: 200

Table 4-5 Response body parameters

Parameter	Type	Description
domain	**CreateDomainResponseBodyContent** object	Response to the request for creating a domain name.

Table 4-6 CreateDomainResponseBodyContent

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: • **web**: website acceleration. • **download**: file download acceleration. • **video**: on-demand service acceleration. • **wholeSite**: whole site acceleration.
service_area	String	Service area of your domain name. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).
user_domain_id	String	Domain ID of the domain name's owner.

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Parameter	Type	Description
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **Sources** objects	Origin server details.
domain_origin_host	**DomainOriginHost** object	Host header settings for origin pull.
https_status	Integer	Whether HTTPS is enabled for acceleration.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
range_status	String	Whether range requests are supported. Possible values: **off** (not supported) and **on** (supported).
follow_status	String	Status of 302 redirect. Possible values: **off** (disabled) and **on** (enabled).

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Parameter	Type	Description
origin_status	String	Origin pull status. Possible values: **off** (disabled) and **on** (enabled).
auto_refresh_preheat	Integer	Whether automatic cache purge and prefetch are enabled. Possible values: **0** (disabled) and **1** (enabled).

Table 4-7 Sources

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: **ipaddr** (origin server IP address), **domain** (origin server domain name), and **obs_bucket** (OBS bucket domain name).
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Whether static website hosting is enabled for the OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.

Table 4-8 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (acceleration domain name) and **customize** (custom domain name).

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Parameter	Type	Description
customize_domain	String	Domain name of the host. Host for pull from the primary origin server. If the acceleration domain name has multiple primary origin servers and each origin server has a host, CDN pulls content from the host of the first primary origin server in the origin server lists.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/domains

{
  "domain" : {
    "domain_name" : "example1.example2.example3.com",
    "business_type" : "web",
    "sources" : [ {
      "ip_or_domain" : "0.0.0.0",
      "origin_type" : "ipaddr",
      "active_standby" : 1
    } ],
    "service_area" : "mainland_china",
    "enterprise_project_id" : "0"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "domain" : {
    "sources" : [ {
      "domain_id" : "ff80************************07b",
      "ip_or_domain" : "0.0.0.0",
      "origin_type" : "ipaddr",
      "active_standby" : 1
    } ],
    "id" : "ff80************************07b",
    "user_domain_id" : "38**********************5024dcb",
    "domain_name" : "example11.example2.example3.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "cname" : "example1.example2.example3.com.c.example4.com",
    "domain_status" : "configuring",
    "https_status" : 0,
    "create_time" : 1513152634467,
    "modify_time" : 1513152634467,
    "domain_origin_host" : {
      "domain_id" : "ff80************************07b",
      "origin_host_type" : "customize",
      "customize_domain" : "example5.example6.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
```

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```
    "origin_status" : "on",
    "auto_refresh_preheat" : 0
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateDomainRequest request = new CreateDomainRequest();
        CreateDomainRequestBody body = new CreateDomainRequestBody();
        List<SourcesRequestBody> listDomainSources = new ArrayList<>();
        listDomainSources.add(
            new SourcesRequestBody()
                .withIpOrDomain("0.0.0.0")
                .withOriginType(SourcesRequestBody.OriginTypeEnum.fromValue("ipaddr"))
                .withActiveStandby(1)
        );
        DomainBody domainbody = new DomainBody();
        domainbody.withDomainName("example1.example2.example3.com")
            .withBusinessType(DomainBody.BusinessTypeEnum.fromValue("web"))
            .withSources(listDomainSources)
            .withServiceArea(DomainBody.ServiceAreaEnum.fromValue("mainland_china"))
            .withEnterpriseProjectId("0");
        body.withDomain(domainbody);
        request.withBody(body);
        try {
            CreateDomainResponse response = client.createDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
```

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```
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateDomainRequest()
        listSourcesDomain = [
            SourcesRequestBody(
                ip_or_domain="0.0.0.0",
                origin_type="ipaddr",
                active_standby=1
            )
        ]
        domainbody = DomainBody(
            domain_name="example1.example2.example3.com",
            business_type="web",
            sources=listSourcesDomain,
            service_area="mainland_china",
            enterprise_project_id="0"
        )
        request.body = CreateDomainRequestBody(
            domain=domainbody
        )
        response = client.create_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateDomainRequest{}
    var listSourcesDomain = []model.SourcesRequestBody{
        {
            IpOrDomain: "0.0.0.0",
            OriginType: model.GetSourcesRequestBodyOriginTypeEnum().IPADDR,
            ActiveStandby: int32(1),
        },
    }
    enterpriseProjectIdDomain:= "0"
    domainbody := &model.DomainBody{
        DomainName: "example1.example2.example3.com",
        BusinessType: model.GetDomainBodyBusinessTypeEnum().WEB,
        Sources: listSourcesDomain,
        ServiceArea: model.GetDomainBodyServiceAreaEnum().MAINLAND_CHINA,
        EnterpriseProjectId: &enterpriseProjectIdDomain,
    }
    request.Body = &model.CreateDomainRequestBody{
        Domain: domainbody,
    }
    response, err := client.CreateDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

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Error Codes

See **Error Codes**.

4.1.2 Listing Domain Names

Function

This API is used to query basic information about an acceleration domain name, including the service area, origin server, tags, and whether the domain name is disabled.

- A single tenant can call this API 50 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/domains

Table 4-9 Query Parameters

Parameter	Mandatory	Type	Description
domain_name	No	String	**Definition** Acceleration domain name. **NOTE** By default, the fuzzy match mode is used. **Constraints** You can query only domain names that have been created in CDN. **Range** 1 to 255 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
business_type	No	String	**Definition** Service type of the domain name. **Constraints** N/A **Range** • **web**: website acceleration. • **download**: file download acceleration. • **video**: on-demand service acceleration. • **wholeSite**: whole site acceleration. **Default Value** N/A
domain_status	No	String	**Definition** Domain name status. **Constraints** N/A **Range** • **online**: enabled. • **offline**: disabled. • **configuring**: configuring. • **configure_failed**: Configuration failed. • **checking**: being reviewed. • **check_failed**: Reviewed failed. • **deleting**: being deleted. **Default Value** N/A

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Parameter	Mandatory	Type	Description
service_area	No	String	**Definition** Area covered by the acceleration service. **Constraints** N/A **Range** • **mainland_china**: Chinese mainland. • **outside_mainland_china**: outside the Chinese mainland. • **global**: global. **Default Value** N/A
page_size	No	Integer	**Definition** Number of domain names on each page. **Constraints** N/A **Range** 1 to 10,000. **Default Value** 30
page_number	No	Integer	**Definition** Page number to be queried. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 1

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Parameter	Mandatory	Type	Description
show_tags	No	Boolean	**Definition** Whether to show tags. **Constraints** N/A **Range** • **true**: displayed. • **false**: not displayed. **Default Value** N/A
exact_match	No	Boolean	**Definition** Whether to enable exact match. If this function is disabled, fuzzy match is used. If this function is enabled, only exact match is used. **Constraints** N/A **Range** • **true**: enabled. • **false**: disabled. **Default Value** false
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-11 Response body parameters

Parameter	Type	Description
total	Integer	Total number of records.
domains	Array of **Domains** objects	Domain name details.

Table 4-12 Domains

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (on-demand service acceleration), and **wholeSite** (whole site acceleration).

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Parameter	Type	Description
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **Sources** objects	Origin server settings.
domain_origin_host	**DomainOriginHost** object	Host header settings for origin pull.
https_status	Integer	Whether HTTPS is enabled for acceleration.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
auto_refresh_preheat	Integer	Whether automatic cache purge and prefetch are enabled. Possible values: **0** (disabled) and **1** (enabled).

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Parameter	Type	Description
service_area	String	Service area of the CDN service. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).
range_status	String	Whether range requests are supported.
follow_status	String	Whether redirect from origin is enabled.
origin_status	String	Origin pull status. Possible values: **off** (disabled) and **on** (enabled).
banned_reason	String	Reason for banning the domain name.
locked_reason	String	Reason for locking the domain name.
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is used. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).
tags	Array of **EpResourceTag** objects	Tag information.

Table 4-13 Sources

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: **ipaddr** (origin server IP address), **domain** (origin server domain name), and **obs_bucket** (OBS bucket domain name).

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Parameter	Type	Description
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Whether static website hosting is enabled for the OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.

Table 4-14 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (acceleration domain name) and **customize** (custom domain name).
customize_domain	String	Domain name of the host. Host for pull from the primary origin server. If the acceleration domain name has multiple primary origin servers and each origin server has a host, CDN pulls content from the host of the first primary origin server in the origin server lists.

Table 4-15 EpResourceTag

Parameter	Type	Description
key	String	Tag key.
value	String	Tag value.

Status code: 400

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Table 4-16 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-17 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains?
domain_name=www.example.com&page_size=10&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

Success response.

```
{
  "total" : 1,
  "domains" : [ {
    "sources" : [ {
      "origin_type" : "domain",
      "ip_or_domain" : "www.example.com",
      "active_standby" : 1
    } ],
    "cname" : "www.example.com.c.test.com",
    "id" : "ab1234a**********g56",
    "domain_name" : "www.example.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "online",
    "https_status" : 0,
    "create_time" : 1516861994806,
    "modify_time" : 1532405346365,
    "domain_origin_host" : {
      "domain_id" : "ab1234a**********g56",
      "origin_host_type" : "customize",
      "customize_domain" : "www.example.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "on",
    "auto_refresh_preheat" : 0,
    "tags" : [ {
      "key" : "string",
      "value" : "string"
    } ]
  } ]
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListDomainsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListDomainsRequest request = new ListDomainsRequest();
        try {
            ListDomainsResponse response = client.listDomains(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListDomainsRequest()
        response = client.list_domains(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListDomainsRequest{}
    response, err := client.ListDomains(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.
400	Error response.

Error Codes

See **Error Codes**.

4.1.3 Deleting a Domain Name

Function

- You can only delete domain names in the **offline**, **configure_failed**, or **check_failed** state.
- All settings of the domain name will be deleted from CDN PoPs and the domain name will no longer be charged by CDN.
- Before deleting your domain name, have your domain requests resolved to the origin server to prevent service interruptions.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1.0/cdn/domains/{domain_id}

Table 4-18 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-19 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-20 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-21 Response body parameters

Parameter	Type	Description
domain	**DomainsWithPort** object	Domain name details.

Table 4-22 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (on-demand service acceleration), and **wholeSite** (whole site acceleration).
user_domain_id	String	Domain ID of the domain name's owner.
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **SourceWithPort** objects	Origin server settings.
domain_origin_host	**DomainOriginHost** object	Host header settings for origin pull.

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Parameter	Type	Description
https_status	Integer	Whether HTTPS is enabled for acceleration. **0**: HTTPS is disabled. **1**: HTTPS is enabled and the origin protocol is same as the user request. **2**: HTTPS is enabled and the origin protocol is HTTP. **3**: HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
auto_refresh_preheat	Integer	Whether automatic cache purge and prefetch are enabled. Possible values: **0** (disabled) and **1** (enabled).
service_area	String	Service area of the CDN service. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).
range_status	String	Whether range requests are supported. Possible values: **off** (not supported) and **on** (supported).
follow_status	String	Status of redirect from origin. Possible values: **off** (disabled) and **on** (enabled).
origin_status	String	Origin pull status. Possible values: **off** (disabled) and **on** (enabled).

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Parameter	Type	Description
banned_reason	String	Reason for banning the domain name. **1**: This domain name contains inappropriate content. **2**: The MIIT license of this domain name has expired. **3**: This domain name is attacked. **150**: This domain name contains pornographic content. **151**: This domain name contains sensitive political content. **152**: This domain name contains violent content. **153**: This domain name contains gambling content.
locked_reason	String	Reason for locking the domain name.
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is used. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Table 4-23 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: **ipaddr** (IP address), **domain** (domain name), and **obs_bucket** (OBS bucket).

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Parameter	Type	Description
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Whether static website hosting is enabled for the OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	Integer	HTTP port. Default value: **80**.
https_port	Integer	HTTPS port. Default value: **443**.

Table 4-24 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (acceleration domain name) and **customize** (custom domain name).
customize_domain	String	Domain name of the host. Host for pull from the primary origin server. If the acceleration domain name has multiple primary origin servers and each origin server has a host, CDN pulls content from the host of the first primary origin server in the origin server lists.

Example Requests

```
DELETE https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80808**********07d?
enterprise_project_id=0
```

Example Responses

Status code: 200

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OK

```
{
  "domain" : {
    "sources" : [ {
      "domain_id" : "ff80808**********************07d",
      "origin_type" : "ipaddr",
      "ip_or_domain" : "0.0.0.0",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "cname" : "example1.example2.com.c.example3.com",
    "id" : "ff80808**********************07d",
    "user_domain_id" : "6e3*********************************441",
    "domain_name" : "example1.example2.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "deleting",
    "https_status" : 2,
    "create_time" : 1532405584521,
    "modify_time" : 1532406543021,
    "domain_origin_host" : {
      "domain_id" : "ff80808**********************07d",
      "origin_host_type" : "accelerate",
      "customize_domain" : "example1.example2.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "on",
    "auto_refresh_preheat" : 0
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DeleteDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteDomainRequest request = new DeleteDomainRequest();
        request.withDomainId("{domain_id}");
        try {
            DeleteDomainResponse response = client.deleteDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteDomainRequest()
        request.domain_id = "{domain_id}"
        response = client.delete_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteDomainRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.DeleteDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.1.4 Enabling CDN for a Domain Name

Function

You can enable CDN for a domain name in the **offline** state.

- A single tenant can call this API 20 times per minute.

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Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/domains/{domain_id}/enable

Table 4-25 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-26 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-27 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-28 Response body parameters

Parameter	Type	Description
domain	**DomainsWithPort** object	Domain name details.

Table 4-29 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (on-demand service acceleration), and **wholeSite** (whole site acceleration).
user_domain_id	String	Domain ID of the domain name's owner.

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Parameter	Type	Description
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **SourceWithPort** objects	Origin server settings.
domain_origin_host	**DomainOriginHost** object	Host header settings for origin pull.
https_status	Integer	Whether HTTPS is enabled for acceleration. **0**: HTTPS is disabled. **1**: HTTPS is enabled and the origin protocol is same as the user request. **2**: HTTPS is enabled and the origin protocol is HTTP. **3**: HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).

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Parameter	Type	Description
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
auto_refresh_preheat	Integer	Whether automatic cache purge and prefetch are enabled. Possible values: **0** (disabled) and **1** (enabled).
service_area	String	Service area of the CDN service. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).
range_status	String	Whether range requests are supported. Possible values: **off** (not supported) and **on** (supported).
follow_status	String	Status of redirect from origin. Possible values: **off** (disabled) and **on** (enabled).
origin_status	String	Origin pull status. Possible values: **off** (disabled) and **on** (enabled).
banned_reason	String	Reason for banning the domain name. **1**: This domain name contains inappropriate content. **2**: The MIIT license of this domain name has expired. **3**: This domain name is attacked. **150**: This domain name contains pornographic content. **151**: This domain name contains sensitive political content. **152**: This domain name contains violent content. **153**: This domain name contains gambling content.
locked_reason	String	Reason for locking the domain name.

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Parameter	Type	Description
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is used. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Table 4-30 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: **ipaddr** (IP address), **domain** (domain name), and **obs_bucket** (OBS bucket).
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Whether static website hosting is enabled for the OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	Integer	HTTP port. Default value: **80**.
https_port	Integer	HTTPS port. Default value: **443**.

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Table 4-31 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (acceleration domain name) and **customize** (custom domain name).
customize_domain	String	Domain name of the host. Host for pull from the primary origin server. If the acceleration domain name has multiple primary origin servers and each origin server has a host, CDN pulls content from the host of the first primary origin server in the origin server lists.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80**********c82722/enable?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "domain" : {
    "sources" : [ {
      "domain_id" : "ff80**********c82722",
      "origin_type" : "ipaddr",
      "ip_or_domain" : "0.0.0.0",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "cname" : "www.example1.example2.0002.example3.com.c.example4.com",
    "id" : "ff80808264c7*******fc82722",
    "user_domain_id" : "6e358a***********a441",
    "domain_name" : "www.example1.example2.0002.example3.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "configuring",
    "https_status" : 0,
    "create_time" : 1532403213673,
    "modify_time" : 1532403782746,
    "domain_origin_host" : {
      "domain_id" : "ff80**********c82722",
      "origin_host_type" : "accelerate",
      "customize_domain" : "www.example1.example2.0002.example3.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "on",
    "auto_refresh_preheat" : 0
```

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```
 }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class EnableDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        EnableDomainRequest request = new EnableDomainRequest();
        request.withDomainId("{domain_id}");
        try {
            EnableDomainResponse response = client.enableDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
```

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```
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = EnableDomainRequest()
        request.domain_id = "{domain_id}"
        response = client.enable_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.EnableDomainRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.EnableDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.1.5 Disabling CDN for a Domain Name

Function

- You can disable CDN for a domain name in the **online** or **configure_failed** state.
- CDN does not provide acceleration services for disabled domain names. You are advised to resolve your domain name requests to the origin server to prevent service interruptions.
- The configuration of a disabled domain name on CDN PoPs is temporarily retained. If a user has a resolution cache on the local DNS or uses a host to forcibly resolve the domain name to a CDN PoP, CDN will refuse to provide services after receiving the request. However, traffic and request data will be generated. You need to pay for the traffic and request data.
- A single tenant can call this API 20 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/domains/{domain_id}/disable

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Table 4-32 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-33 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-34 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-35 Response body parameters

Parameter	Type	Description
domain	**DomainsWithPort** object	Domain name details.

Table 4-36 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (on-demand service acceleration), and **wholeSite** (whole site acceleration).
user_domain_id	String	Domain ID of the domain name's owner.

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Parameter	Type	Description
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **SourceWithPort** objects	Origin server settings.
domain_origin_host	**DomainOriginHost** object	Host header settings for origin pull.
https_status	Integer	Whether HTTPS is enabled for acceleration. **0**: HTTPS is disabled. **1**: HTTPS is enabled and the origin protocol is same as the user request. **2**: HTTPS is enabled and the origin protocol is HTTP. **3**: HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).

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Parameter	Type	Description
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
auto_refresh_preheat	Integer	Whether automatic cache purge and prefetch are enabled. Possible values: **0** (disabled) and **1** (enabled).
service_area	String	Service area of the CDN service. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).
range_status	String	Whether range requests are supported. Possible values: **off** (not supported) and **on** (supported).
follow_status	String	Status of redirect from origin. Possible values: **off** (disabled) and **on** (enabled).
origin_status	String	Origin pull status. Possible values: **off** (disabled) and **on** (enabled).
banned_reason	String	Reason for banning the domain name. **1**: This domain name contains inappropriate content. **2**: The MIIT license of this domain name has expired. **3**: This domain name is attacked. **150**: This domain name contains pornographic content. **151**: This domain name contains sensitive political content. **152**: This domain name contains violent content. **153**: This domain name contains gambling content.
locked_reason	String	Reason for locking the domain name.

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Parameter	Type	Description
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is used. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Table 4-37 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: **ipaddr** (IP address), **domain** (domain name), and **obs_bucket** (OBS bucket).
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Whether static website hosting is enabled for the OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	Integer	HTTP port. Default value: **80**.
https_port	Integer	HTTPS port. Default value: **443**.

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Table 4-38 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (acceleration domain name) and **customize** (custom domain name).
customize_domain	String	Domain name of the host. Host for pull from the primary origin server. If the acceleration domain name has multiple primary origin servers and each origin server has a host, CDN pulls content from the host of the first primary origin server in the origin server lists.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********722/disable?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "domain" : {
    "sources" : [ {
      "domain_id" : "ff8080**********722",
      "origin_type" : "ipaddr",
      "ip_or_domain" : "0.0.0.0",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "cname" : "www.example1.example2.0002.example3.com.c.example4.com",
    "id" : "ff8080**********722",
    "user_domain_id" : "6e358**********a441",
    "domain_name" : "www.example1.example2.0002.example3.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "configuring",
    "https_status" : 0,
    "create_time" : 1532403213673,
    "modify_time" : 1532403548714,
    "domain_origin_host" : {
      "domain_id" : "ff8080**********722",
      "origin_host_type" : "accelerate",
      "customize_domain" : "www.example1.example2.0002.example3.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "off",
    "auto_refresh_preheat" : 0
```

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```
 }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DisableDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DisableDomainRequest request = new DisableDomainRequest();
        request.withDomainId("{domain_id}");
        try {
            DisableDomainResponse response = client.disableDomain(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
```

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```
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DisableDomainRequest()
        request.domain_id = "{domain_id}"
        response = client.disable_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DisableDomainRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.DisableDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.1.6 Querying a Domain Name

Function

This API is used to query details about an acceleration domain name, including the domain name ID, service area, service type, and origin server.

- A single tenant can call this API 300 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/domains/{domain_name}

Table 4-39 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-40 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-41 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-42 Response body parameters

Parameter	Type	Description
domain	**DomainsDetail** object	Domain name details.

Table 4-43 DomainsDetail

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (on-demand service acceleration), and **wholeSite** (whole site acceleration).
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of **SourcesDomainConfig** objects	Origin server settings.

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Parameter	Type	Description
https_status	Integer	Whether HTTPS is enabled for acceleration. **0**: HTTPS is disabled. **1**: HTTPS is enabled and the origin protocol is same as the user request. **2**: HTTPS is enabled and the origin protocol is HTTP. **3**: HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
update_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: **0** (not banned) and **1** (banned).
locked	Integer	Whether the domain name is locked. Possible values: **0** (not locked) and **1** (locked).
service_area	String	Service area of the CDN service. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (global).

Table 4-44 SourcesDomainConfig

Parameter	Type	Description
origin_type	String	Origin server type. • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket.

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Parameter	Type	Description
origin_addr	String	IP address or domain name of the origin server.
priority	Integer	Origin server priority. Possible values: **70** (primary) and **30** (standby).
obs_web_hosting_status	String	Whether static website hosting is enabled for the OBS bucket. This parameter is mandatory when the origin server type is **obs_bucket**. Possible values: **off** (disabled) and **on** (enabled).
http_port	Integer	HTTP port. Default value: **80**. The port number ranges from 1 to 65535.
https_port	Integer	HTTPS port. Default value: **443**. The port number ranges from 1 to 65535.
host_name	String	Host header. The default value is the acceleration domain name.
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)

Status code: 400

Table 4-45 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 4-46 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

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Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/www.example.com?
enterprise_project_id=1
```

Example Responses

Status code: 200

Success response.

```
{
  "domain" : {
    "sources" : [ {
      "origin_type" : "domain",
      "origin_addr" : "www.example.com",
      "priority" : 70,
      "obs_web_hosting_status" : "string",
      "http_port" : 80,
      "https_port" : 443,
      "host_name" : "string"
    } ],
    "cname" : "www.example.com.c.example2.com",
    "id" : "12a**********345d671",
    "domain_name" : "www.example.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "online",
    "https_status" : 0,
    "create_time" : 1516861994806,
    "update_time" : 1532405346365,
    "disabled" : 0
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowDomainDetailByNameSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);
```

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```
        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowDomainDetailByNameRequest request = new ShowDomainDetailByNameRequest();
        request.withDomainName("{domain_name}");
        try {
            ShowDomainDetailByNameResponse response = client.showDomainDetailByName(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowDomainDetailByNameRequest()
        request.domain_name = "{domain_name}"
        response = client.show_domain_detail_by_name(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDomainDetailByNameRequest{}
    request.DomainName = "{domain_name}"
    response, err := client.ShowDomainDetailByName(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.
400	Error response.

Error Codes

See **Error Codes**.

4.1.7 Verifying the Domain Name Ownership

Function

- When you add a domain name to CDN for the first time, verify your ownership of the domain name to avoid unauthorized or malicious use.

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- 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.
- 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.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/domains/{domain_name}/verify-owner

Table 4-47 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-48 Request body parameters

Parameter	Mandatory	Type	Description
verify_type	No	String	**Definition** Verification method. **Constraints** N/A **Range** • **dns**: DNS record. • **file**: file upload. • **all**: CDN detects both the DNS record and uploaded file. Verification succeeds if either method works. **Default Value** all

Response Parameters

Status code: 200

Table 4-49 Response body parameters

Parameter	Type	Description
result	Boolean	Whether the verification is successful. Possible values: **true** (yes) and **false** (no).

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/image.example.com/verify-owner

{
  "verify_type" : "all"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "result" : true
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class VerifyDomainOwnerSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        VerifyDomainOwnerRequest request = new VerifyDomainOwnerRequest();
        request.withDomainName("{domain_name}");
        VerifyDomainOwnerRequestBody body = new VerifyDomainOwnerRequestBody();
        body.withVerifyType("all");
        request.withBody(body);
        try {
            VerifyDomainOwnerResponse response = client.verifyDomainOwner(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *
```

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```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = VerifyDomainOwnerRequest()
        request.domain_name = "{domain_name}"
        request.body = VerifyDomainOwnerRequestBody(
            verify_type="all"
        )
        response = client.verify_domain_owner(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.VerifyDomainOwnerRequest{}
    request.DomainName = "{domain_name}"
    verifyTypeVerifyDomainOwnerRequestBody:= "all"
    request.Body = &model.VerifyDomainOwnerRequestBody{
        VerifyType: &verifyTypeVerifyDomainOwnerRequestBody,
    }
```

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```
    response, err := client.VerifyDomainOwner(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.

Error Codes

See **Error Codes**.

4.1.8 Querying the Ownership Verification Information of a Domain Name

Function

This API is used to query the ownership verification information of an added acceleration domain name.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/domains/{domain_name}/domain-verifies

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Table 4-50 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-51 Response body parameters

Parameter	Type	Description
dns_verify_type	String	DNS record type.
dns_verify_name	String	Name of the host record resolved by DNS.
file_verify_url	String	File upload URL.
domain_name	String	Domain name.
verify_domain_name	String	Verified domain name.
file_verify_filename	String	Name of the uploaded file.
verify_content	String	Verification value, which is the DNS record value or file content.
file_verify_domains	Array of strings	List of domain names verified using file upload.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/image.example.com/domain-verifies
```

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Example Responses

Status code: 200

Request succeeded.

```
{
  "dns_verify_type" : "TXT",
  "dns_verify_name" : "cdn_verification",
  "file_verify_url" : "http://example.com/verification.html",
  "verify_domain_name" : "example.com",
  "domain_name" : "image.example.com",
  "file_verify_domains" : [ "example.com", "image.example.com" ],
  "file_verify_filename" : "verification.html",
  "verify_content" : "202**********9e36"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowVerifyDomainOwnerInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowVerifyDomainOwnerInfoRequest request = new ShowVerifyDomainOwnerInfoRequest();
        request.withDomainName("{domain_name}");
        try {
            ShowVerifyDomainOwnerInfoResponse response = client.showVerifyDomainOwnerInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
```

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```
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowVerifyDomainOwnerInfoRequest()
        request.domain_name = "{domain_name}"
        response = client.show_verify_domain_owner_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()
```

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```
    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowVerifyDomainOwnerInfoRequest{}
    request.DomainName = "{domain_name}"
    response, err := client.ShowVerifyDomainOwnerInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.

Error Codes

See **Error Codes**.

4.2 Domain Name Configuration

4.2.1 Querying IP Address Information

Function

Check whether an IP address is that of a Huawei Cloud CDN PoP.

- A single tenant can call this API 10 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/ip-info

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Table 4-52 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A
ips	Yes	String	**Definition** One or more IP addresses to be queried. **Constraints** • Separate IP addresses by commas (,). • Enter up to 20 IP addresses. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-53 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-54 Response body parameters

Parameter	Type	Description
cdn_ips	Array of **CdnIps** objects	Homing information of IP addresses.

Table 4-55 CdnIps

Parameter	Type	Description
ip	String	IP address to be queried.
belongs	Boolean	Whether the IP address is that of a Huawei Cloud CDN PoP. Possible values: **true** and **false**.
region	String	State/Province whether the IP address is from. The value can be **Unknown**.
isp	String	Carrier. If the state/province of the IP address is unknown, **null** is returned for this parameter.

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Parameter	Type	Description
platform	String	Platform. If the state/province of the IP address is unknown, **null** is returned for this parameter.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/ip-info?ips=192.168.1.1,192.168.1.2&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "cdn_ips" : [ {
    "ip" : "192.168.1.1",
    "region" : "Sichuan",
    "platform" : null,
    "isp" : "Dianxin",
    "belongs" : true
  }, {
    "ip" : "192.168.1.2",
    "region" : "Unknown",
    "platform" : null,
    "isp" : null,
    "belongs" : false
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowIpInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
```

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```
            .withAk(ak)
            .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
            .withCredential(auth)
            .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowIpInfoRequest request = new ShowIpInfoRequest();
        try {
            ShowIpInfoResponse response = client.showIpInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowIpInfoRequest()
        response = client.show_ip_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowIpInfoRequest{}
    response, err := client.ShowIpInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.2.2 Modifying the Status of Private Bucket Access

Function

- A single tenant can call this API 10 times per minute.

Calling Method

For details, see **Calling APIs**.

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URI

PUT /v1.0/cdn/domains/{domain_id}/private-bucket-access

Table 4-56 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-57 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-58 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-59 Request body parameters

Parameter	Mandatory	Type	Description
status	No	Boolean	**Definition** Bucket access status. **Constraints** N/A **Range** • **true**: enabled. • **false**: disabled. **Default Value** false

Response Parameters

Status code: 200

Table 4-60 Response body parameters

Parameter	Type	Description
status	Boolean	Whether private bucket access is enabled. Possible values: **true** (enabled) and **false** (disabled).

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Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80808**********************07d/private-bucket-access

{
  "status" : false
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : false
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class UpdatePrivateBucketAccessSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdatePrivateBucketAccessRequest request = new UpdatePrivateBucketAccessRequest();
        request.withDomainId("{domain_id}");
        UpdatePrivateBucketAccessBody body = new UpdatePrivateBucketAccessBody();
        body.withStatus(false);
        request.withBody(body);
        try {
            UpdatePrivateBucketAccessResponse response = client.updatePrivateBucketAccess(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
```

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```
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePrivateBucketAccessRequest()
        request.domain_id = "{domain_id}"
        request.body = UpdatePrivateBucketAccessBody(
            status=False
        )
        response = client.update_private_bucket_access(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
```

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```
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePrivateBucketAccessRequest{}
    request.DomainId = "{domain_id}"
    statusUpdatePrivateBucketAccessBody:= false
    request.Body = &model.UpdatePrivateBucketAccessBody{
        Status: &statusUpdatePrivateBucketAccessBody,
    }
    response, err := client.UpdatePrivateBucketAccess(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.2.3 Configuring a Certificate for a Batch of Domain Names

Function

Configure a certificate for multiple acceleration domain names. If an HTTPS certificate has been configured for a domain name, the new certificate will overwrite the original certificate.

- A single tenant can call this API 20 times per minute.

Calling Method

For details, see **Calling APIs**.

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URI

PUT /v1.0/cdn/domains/config-https-info

Table 4-61 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-62 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-63 Request body parameters

Parameter	Mandatory	Type	Description
https	No	**UpdateDomainMultiCertificatesRequestBodyContent** object	**Definition** HTTPS certificate settings. After the certificate is configured, clients can access CDN PoPs using HTTPS. **Constraints** N/A

Table 4-64 UpdateDomainMultiCertificatesRequestBodyContent

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Domain names for which the HTTPS certificate needs to be configured. **Constraints** • Separate domain names by commas (,). • Add up to 50 domain names. **Range** N/A **Default Value** N/A
https_switch	Yes	Integer	**Definition** Certificate status. **Constraints** When **https_switch** is set to **1**, the certificate must be specified. **Range** • **0**: disabled. • **1**: enabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
access_origin_way	No	Integer	**Definition** Origin protocol. **Constraints** N/A **Range** • **1**: same as user. • **2**: HTTP. • **3**: HTTPS. **Default Value** 2
force_redirect_https	No	Integer	**Definition** Whether to enable force redirect to HTTPS to force clients to use HTTPS to access CDN PoPs. **NOTE** This parameter is about to go offline. You are advised to use **force_redirect_config**. **Constraints** N/A **Range** • **0**: disabled. • **1**: enabled. **Default Value** 0
force_redirect_config	No	ForceRedirect object	**Definition** This parameter is used to force clients to use HTTPS when accessing CDN PoPs. **Constraints** N/A

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Parameter	Mandatory	Type	Description
http2	No	Integer	**Definition** Whether to enable HTTP/2 to allow clients to use HTTP/2 when accessing CDN PoPs. **Constraints** N/A **Range** • **0**: disabled. • **1**: enabled. **Default Value** 0
cert_name	No	String	**Definition** Certificate name. **Constraints** This parameter is mandatory when **https_switch** is set to **1**. **Range** 3 to 64 characters. **Default Value** N/A
certificate	No	String	**Definition** SSL certificate content. **Constraints** • Only the PEM format is supported. • This parameter is optional if a certificate is not required. • This parameter is mandatory when a certificate is configured for the first time. • A complete certificate chain is required. **Range** The certificate chain cannot exceed 20 KB. **Default Value** N/A

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Parameter	Mandatory	Type	Description
private_key	No	String	**Definition** Private key of the SSL certificate. **Constraints** • Only the PEM format is supported. • This parameter is optional if a certificate is not required. • This parameter is mandatory when a certificate is configured for the first time. **Range** N/A **Default Value** N/A
certificate_type	No	Integer	**Definition** Certificate type. **Constraints** N/A **Range** • **0**: your certificate. • **2**: SSL Certificate Manager (SCM) certificate. **Default Value** 0
scm_certificate_id	No	String	**Definition** SCM certificate ID, which can be obtained using the API of Cloud Certificate Manager (CCM) for listing certificates. **Constraints** Mandatory when an SCM certificate is configured. **Range** N/A **Default Value** N/A

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Table 4-65 ForceRedirect

Parameter	Mandatory	Type	Description
switch	Yes	Integer	**Definition** Whether to enable force redirect to force clients to use HTTPS or HTTP to access CDN PoPs. **Constraints** N/A **Range** • **1**: enabled. • **0**: disabled. **Default Value** N/A
redirect_type	Yes	String	**Definition** Protocol to which requests are forcibly redirected. **Constraints** If force redirect to HTTPS is enabled, an HTTPS certificate must be configured. Otherwise, the access will fail. **Range** • **http**: force redirect to HTTP. • **https**: force redirect to HTTPS. **Default Value** N/A

Response Parameters

Status code: 200

Table 4-66 Response body parameters

Parameter	Type	Description
https	**UpdateDomainMultiCertificates-ResponseBodyContent** object	HTTPS settings.
status	String	Execution result. The value can be **success** or **fail**.

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Parameter	Type	Description
result	Array of **result** objects	Details.

Table 4-67 UpdateDomainMultiCertificatesResponseBodyContent

Parameter	Type	Description
domain_name	String	Domain name list.
https_switch	Integer	HTTPS status. Possible values: **0** (disabled) and **1** (enabled). If you set this parameter to **1**, a certificate must be configured.
access_origin_way	Integer	Origin protocol. Possible values: **1** (same as user requests), **2** (HTTP, default value), and **3** (HTTPS, only on Huawei PoPs).
force_redirect_https	Integer	Force HTTPS status. Possible values: **0** (disabled) and **1** (enabled).
force_redirect_config	**ForceRedirect** object	**Definition** This parameter is used to force clients to use HTTPS when accessing CDN PoPs. **Constraints** N/A
http2	Integer	HTTP/2 status. Possible values: **0** (disabled) and **1** (enabled).
cert_name	String	Certificate name.
certificate	String	Certificate content.
certificate_type	Integer	Certificate type. Value: **0** (your own certificate).
expiration_time	Long	Certificate expiration time.

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Table 4-68 ForceRedirect

Parameter	Type	Description
switch	Integer	**Definition** Whether to enable force redirect to force clients to use HTTPS or HTTP to access CDN PoPs. **Constraints** N/A **Range** • **1**: enabled. • **0**: disabled. **Default Value** N/A
redirect_type	String	**Definition** Protocol to which requests are forcibly redirected. **Constraints** If force redirect to HTTPS is enabled, an HTTPS certificate must be configured. Otherwise, the access will fail. **Range** • **http**: force redirect to HTTP. • **https**: force redirect to HTTPS. **Default Value** N/A

Table 4-69 result

Parameter	Type	Description
domain_name	String	Domain name.
status	String	Execution result. The value can be **success** or **fail**.
reason	String	Failure cause.

Example Requests

```
{
  "https" : {
    "domain_name" : "example1.com",
    "access_origin_way" : 2,
    "http2" : 0,
```

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```
    "certificate_type" : 0,
    "force_redirect_config" : {
      "redirect_type" : "https",
      "switch" : 1
    },
    "https_switch" : 1,
    "cert_name" : "cdn_test_cert",
    "certificate" : "-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
    "private_key" : "-----BEGIN RSA PRIVATE KEY---------END RSA PRIVATE KEY-----"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "https" : {
    "domain_name" : "example1.com",
    "https_switch" : 1,
    "access_origin_way" : 2,
    "force_redirect_https" : 1,
    "force_redirect_config" : {
      "redirect_type" : "https",
      "switch" : 1
    },
    "http2" : 0,
    "expiration_time" : 1925791912000,
    "cert_name" : "cdn_test_cert",
    "certificate" : "-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
    "certificate_type" : 0
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class UpdateDomainMultiCertificatesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
```

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```
            .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateDomainMultiCertificatesRequest request = new UpdateDomainMultiCertificatesRequest();
        UpdateDomainMultiCertificatesRequestBody body = new
UpdateDomainMultiCertificatesRequestBody();
        ForceRedirect forceRedirectConfigHttps = new ForceRedirect();
        forceRedirectConfigHttps.withSwitch(1)
            .withRedirectType("https");
        UpdateDomainMultiCertificatesRequestBodyContent httpsbody = new
UpdateDomainMultiCertificatesRequestBodyContent();
        httpsbody.withDomainName("example1.com")
            .withHttpsSwitch(1)
            .withAccessOriginWay(2)
            .withForceRedirectConfig(forceRedirectConfigHttps)
            .withHttp2(0)
            .withCertName("cdn_test_cert")
            .withCertificate("-----BEGIN CERTIFICATE----------END CERTIFICATE-----")
            .withPrivateKey("-----BEGIN RSA PRIVATE KEY---------END RSA PRIVATE KEY-----")
            .withCertificateType(0);
        body.withHttps(httpsbody);
        request.withBody(body);
        try {
            UpdateDomainMultiCertificatesResponse response = client.updateDomainMultiCertificates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```

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```
        request = UpdateDomainMultiCertificatesRequest()
        forceRedirectConfigHttps = ForceRedirect(
            switch=1,
            redirect_type="https"
        )
        httpsbody = UpdateDomainMultiCertificatesRequestBodyContent(
            domain_name="example1.com",
            https_switch=1,
            access_origin_way=2,
            force_redirect_config=forceRedirectConfigHttps,
            http2=0,
            cert_name="cdn_test_cert",
            certificate="-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
            private_key="-----BEGIN RSA PRIVATE KEY---------END RSA PRIVATE KEY-----",
            certificate_type=0
        )
        request.body = UpdateDomainMultiCertificatesRequestBody(
            https=httpsbody
        )
        response = client.update_domain_multi_certificates(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDomainMultiCertificatesRequest{}
    redirectTypeForceRedirectConfig:= "https"
    forceRedirectConfigHttps := &model.ForceRedirect{
        Switch: int32(1),
        RedirectType: &redirectTypeForceRedirectConfig,
    }
    accessOriginWayHttps:= int32(2)
    http2Https:= int32(0)
    certNameHttps:= "cdn_test_cert"
    certificateHttps:= "-----BEGIN CERTIFICATE----------END CERTIFICATE-----"
```

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```
    privateKeyHttps:= "-----BEGIN RSA PRIVATE KEY---------END RSA PRIVATE KEY-----"
    certificateTypeHttps:= int32(0)
    httpsbody := &model.UpdateDomainMultiCertificatesRequestBodyContent{
        DomainName: "example1.com",
        HttpsSwitch: int32(1),
        AccessOriginWay: &accessOriginWayHttps,
        ForceRedirectConfig: forceRedirectConfigHttps,
        Http2: &http2Https,
        CertName: &certNameHttps,
        Certificate: &certificateHttps,
        PrivateKey: &privateKeyHttps,
        CertificateType: &certificateTypeHttps,
    }
    request.Body = &model.UpdateDomainMultiCertificatesRequestBody{
        Https: httpsbody,
    }
    response, err := client.UpdateDomainMultiCertificates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.2.4 Querying All Domain Names Associated with HTTPS Certificates

Function

This API is used to query information about domain names with an HTTPS certificate and their certificates.

- A single tenant can call this API 15 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/domains/https-certificate-info

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Table 4-70 Query Parameters

Parameter	Mandatory	Type	Description
page_size	No	Integer	**Definition** Number of records on each page during pagination query. **Constraints** N/A **Range** 1 to 10,000. **Default Value** N/A 30
page_number	No	Integer	**Definition** Page number for pagination query. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 1
domain_name	No	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
user_domain_id	No	String	**Definition** Account ID of the user to which the domain name belongs. For details about how to obtain the value of this parameter, see section "Obtaining the Account ID" in the *CDN API Reference*. **Constraints** N/A **Range** N/A **Default Value** N/A
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-71 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-72 Response body parameters

Parameter	Type	Description
total	Integer	Total number of queried records.
https	Array of **HttpsDetail** objects	HTTPS settings.

Table 4-73 HttpsDetail

Parameter	Type	Description
domain_id	String	Domain name ID.
domain_name	String	Domain name associated with the certificate.
cert_name	String	Certificate name.
certificate	String	Certificate content.
private_key	String	Private key.

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Parameter	Type	Description
certificate_type	Integer	Certificate type. Possible values: **0** (your own certificate), **1** (Huawei-managed certificate), and **2** (SCM certificate).
expiration_time	Long	Certificate expiration time.
https_status	Integer	Whether HTTPS is enabled. **0**: HTTPS is disabled. **1**: HTTPS is enabled and the origin protocol is the same as that of user requests. **2**: HTTPS is enabled and the origin protocol is HTTP.
force_redirect_https	Integer	Whether force redirect is enabled. Possible values: **0** (no), **1** (yes), and **2** (force HTTP.)
force_redirect_config	**ForceRedirect** object	**Definition** This parameter is used to force clients to use HTTPS when accessing CDN PoPs. **Constraints** N/A
http2	Integer	Whether HTTP/2 is used. Possible values: **1** (yes) and **0** (no).

Table 4-74 ForceRedirect

Parameter	Type	Description
switch	Integer	**Definition** Whether to enable force redirect to force clients to use HTTPS or HTTP to access CDN PoPs. **Constraints** N/A **Range** • **1**: enabled. • **0**: disabled. **Default Value** N/A

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Parameter	Type	Description
redirect_type	String	**Definition** Protocol to which requests are forcibly redirected. **Constraints** If force redirect to HTTPS is enabled, an HTTPS certificate must be configured. Otherwise, the access will fail. **Range** • **http**: force redirect to HTTP. • **https**: force redirect to HTTPS. **Default Value** N/A

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/https-certificate-info?
domain_name=www.example.com&page_size=10&page_number=1
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "https" : [ {
    "https_status" : 1,
    "force_redirect_https" : 2,
    "force_redirect_config" : {
      "redirect_type" : "http",
      "switch" : 1
    },
    "http2" : 0,
    "cert_name" : "cdn_test",
    "certificate" : "-----BEGIN CERTIFICATE-----XX-----END CERTIFICATE-----",
    "private_key" : null,
    "certificate_type" : 0,
    "expiration_time" : 1606187416000,
    "domain_id" : "3e**************************63",
    "domain_name" : "www.example.com"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

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```
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowCertificatesHttpsInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowCertificatesHttpsInfoRequest request = new ShowCertificatesHttpsInfoRequest();
        try {
            ShowCertificatesHttpsInfoResponse response = client.showCertificatesHttpsInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
```

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```
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowCertificatesHttpsInfoRequest()
        response = client.show_certificates_https_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowCertificatesHttpsInfoRequest{}
    response, err := client.ShowCertificatesHttpsInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

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Error Codes

See **Error Codes**.

4.2.5 Listing Resource Tags

Function

This API is used to query information about tags created in your account.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/tags

Table 4-75 Query Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-76 Response body parameters

Parameter	Type	Description
tags	Array of **Tag** objects	Tag list.

Table 4-77 Tag

Parameter	Type	Description
key	String	**Definition** Tag key. **Constraints** N/A **Range** • Enter 1 to 128 characters. • Use only letters, digits, spaces, and these characters: _.:=+-@ **Default Value** N/A
value	String	**Definition** Tag value. **Constraints** N/A **Range** • Enter up to 255 characters. • Use only letters, digits, spaces, and these characters: _.:/=+-@' **Default Value** N/A

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/tags
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "tags" : [ ]
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowTagsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowTagsRequest request = new ShowTagsRequest();
        try {
            ShowTagsResponse response = client.showTags(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTagsRequest()
        response = client.show_tags(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTagsRequest{}
    response, err := client.ShowTags(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Request succeeded.

Error Codes

See **Error Codes**.

4.2.6 Creating a Resource Tag

Function

This API is used to add tags to a domain name.

- You can add up to 20 tags to each domain name.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/tags

Request Parameters

Table 4-78 Request body parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
tags	Yes	Array of **Tag** objects	**Definition** Tag list. **Constraints** N/A

Table 4-79 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	**Definition** Tag key. **Constraints** N/A **Range** • Enter 1 to 128 characters. • Use only letters, digits, spaces, and these characters: _.:=+-@ **Default Value** N/A
value	No	String	**Definition** Tag value. **Constraints** N/A **Range** • Enter up to 255 characters. • Use only letters, digits, spaces, and these characters: _.:/=+-@' **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

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Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/tags

{
  "resource_id" : "test_resource_id",
  "tags" : [ {
    "key" : "test_key_1",
    "value" : "test_value_1"
  }, {
    "key" : "test_key_2",
    "value" : "test_value_2"
  } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateTagsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateTagsRequest request = new CreateTagsRequest();
        CreateTagsRequestBody body = new CreateTagsRequestBody();
        List<TagMap> listbodyTags = new ArrayList<>();
        listbodyTags.add(
            new TagMap()
                .withKey("test_key_1")
                .withValue("test_value_1")
        );
        listbodyTags.add(
```

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```
            new TagMap()
                .withKey("test_key_2")
                .withValue("test_value_2")
        );
        body.withTags(listbodyTags);
        body.withResourceId("test_resource_id");
        request.withBody(body);
        try {
            CreateTagsResponse response = client.createTags(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateTagsRequest()
        listTagsbody = [
            TagMap(
                key="test_key_1",
                value="test_value_1"
            ),
            TagMap(
                key="test_key_2",
                value="test_value_2"
            )
        ]
        request.body = CreateTagsRequestBody(
            tags=listTagsbody,
            resource_id="test_resource_id"
        )
        response = client.create_tags(request)
        print(response)
    except exceptions.ClientRequestException as e:
```

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```
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateTagsRequest{}
    valueTags:= "test_value_1"
    valueTags1:= "test_value_2"
    var listTagsbody = []model.TagMap{
        {
            Key: "test_key_1",
            Value: &valueTags,
        },
        {
            Key: "test_key_2",
            Value: &valueTags1,
        },
    }
    request.Body = &model.CreateTagsRequestBody{
        Tags: listTagsbody,
        ResourceId: "test_resource_id",
    }
    response, err := client.CreateTags(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.7 Deleting a Resource Tag

Function

This API is used to delete tags of a domain name.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/tags/batch-delete

Request Parameters

Table 4-80 Request body parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	**Definition** Acceleration domain name ID, which can be obtained by calling the API for querying acceleration domain names. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
tags	Yes	Array of strings	**Definition** Tag key list. **Constraints** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/tags/batch-delete

{
  "resource_id" : "test_resource_id",
  "tags" : [ "test_tag_1", "test_tag_2" ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchDeleteTagsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchDeleteTagsRequest request = new BatchDeleteTagsRequest();
        DeleteTagsRequestBody body = new DeleteTagsRequestBody();
        List<String> listbodyTags = new ArrayList<>();
        listbodyTags.add("test_tag_1");
        listbodyTags.add("test_tag_2");
        body.withTags(listbodyTags);
        body.withResourceId("test_resource_id");
        request.withBody(body);
        try {
            BatchDeleteTagsResponse response = client.batchDeleteTags(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchDeleteTagsRequest()
        listTagsbody = [
            "test_tag_1",
            "test_tag_2"
        ]
        request.body = DeleteTagsRequestBody(
            tags=listTagsbody,
            resource_id="test_resource_id"
        )
```

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```
        response = client.batch_delete_tags(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchDeleteTagsRequest{}
    var listTagsbody = []string{
        "test_tag_1",
        "test_tag_2",
    }
    request.Body = &model.DeleteTagsRequestBody{
        Tags: listTagsbody,
        ResourceId: "test_resource_id",
    }
    response, err := client.BatchDeleteTags(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.8 Copying Domain Configuration

Function

This API is used to copy the configuration of an acceleration domain name to other existing domain names.

- This function is available for unbanned domain names in the enabled, disabled, or rejected state.
- Configuration replication cannot be undone. Before copying the configuration of a domain name, ensure that the configuration is correct.
- This function is unavailable for domain names with special configurations.
- HTTPS certificates and basic information about domain names cannot be copied.
- A single tenant can call this API 20 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/domains/batch-copy

Request Parameters

Table 4-81 Request body parameters

Parameter	Mandatory	Type	Description
configs	Yes	**BatchCopyConfigs** object	**Definition** Configuration of the source domain name. **Constraints** N/A

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Table 4-82 BatchCopyConfigs

Parameter	Mandatory	Type	Description
target_domain	Yes	String	**Definition** One or more target domain names, that is, the domain names that need to copy configuration from another domain name. **Constraints** • Separate domain names by commas (,). • Add up to 10 domain names. • This function is available for unbanned and unlocked domain names in the enabled, disabled, or rejected state. **Range** N/A **Default Value** N/A
source_domain	Yes	String	**Definition** Source domain name to share its configuration with the target domain names. **Constraints** • This function is available for unbanned domain names in the enabled, disabled, or rejected state. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
config_list	Yes	Array of strings	**Definition** Configuration items of the source domain name to be copied. **Constraints** Separate configuration items by commas (,). **Range** • **origin_request_header**: origin request headers. • **http_response_header**: HTTP headers. • **url_auth**: token authentication. • **user_agent_black_and_white_list**: User-Agent blacklist or whitelist. • **ipv6Accelerate**: IPv6. • **range_status**: range requests. • **cache_rules**: cache rules. • **follow_302_status**: redirect from origin. • **sources**: origin server. • **compress**: smart compression. • **referer**: referer validation. • **ip_black_and_white_list**: IP address blacklist or whitelist. • **browserCacheRules**: browser cache TTL. • **cacheValidErrorCode**: status code TTL. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-83 Response body parameters

Parameter	Type	Description
result	Array of **BatchCopyResultVo** objects	Result of copying the configuration.

Table 4-84 BatchCopyResultVo

Parameter	Type	Description
reason	String	Failure cause. This parameter is unavailable when the response is successful.
status	String	Batch operation result.
domain_name	String	Domain name.

Status code: default

Table 4-85 Response body parameters

Parameter	Type	Description
error	**error** object	Error response body.

Table 4-86 error

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/batch-copy

{
  "configs" : {
    "target_domain" : "www.target1.com,www.target2.com",
    "source_domain" : "www.source.com",
    "config_list" : [ "ipv6Accelerate", "follow302Status", "sources" ]
  }
}
```

Example Responses

Status code: 200

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Success.

```
{
  "result" : [ {
    "reason" : "This operation is not supported for the domain name in the current state.",
    "domain_name" : "www.target1.com",
    "status" : "fail"
  }, {
    "reason" : "This operation is not supported for the domain name in the current state.",
    "domain_name" : "www.target2.com",
    "status" : "fail"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchCopyDomainSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchCopyDomainRequest request = new BatchCopyDomainRequest();
        BatchCopyDRequestBody body = new BatchCopyDRequestBody();
        List<String> listConfigsConfigList = new ArrayList<>();
        listConfigsConfigList.add("ipv6Accelerate");
        listConfigsConfigList.add("follow302Status");
        listConfigsConfigList.add("sources");
        BatchCopyConfigs configsbody = new BatchCopyConfigs();
        configsbody.withTargetDomain("www.target1.com,www.target2.com")
            .withSourceDomain("www.source.com")
            .withConfigList(listConfigsConfigList);
        body.withConfigs(configsbody);
        request.withBody(body);
        try {
            BatchCopyDomainResponse response = client.batchCopyDomain(request);
            System.out.println(response.toString());
```

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```
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchCopyDomainRequest()
        listConfigListConfigs = [
            "ipv6Accelerate",
            "follow302Status",
            "sources"
        ]
        configsbody = BatchCopyConfigs(
            target_domain="www.target1.com,www.target2.com",
            source_domain="www.source.com",
            config_list=listConfigListConfigs
        )
        request.body = BatchCopyDRequestBody(
            configs=configsbody
        )
        response = client.batch_copy_domain(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchCopyDomainRequest{}
    var listConfigListConfigs = []string{
        "ipv6Accelerate",
        "follow302Status",
        "sources",
    }
    configsbody := &model.BatchCopyConfigs{
        TargetDomain: "www.target1.com,www.target2.com",
        SourceDomain: "www.source.com",
        ConfigList: listConfigListConfigs,
    }
    request.Body = &model.BatchCopyDRequestBody{
        Configs: configsbody,
    }
    response, err := client.BatchCopyDomain(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success.
default	Error response.

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Error Codes

See **Error Codes**.

4.2.9 Modifying the Full Domain Configuration

Function

This API is used to modify the domain name configuration. You can modify the service type, service area, remarks, IPv6, origin protocol, origin URL rewriting, advanced origin, range request, redirect from origin, ETag verification, origin response timeout, origin request header, HTTPS, TLS version, force redirect, HSTS, HTTP/2, OCSP stapling, QUIC, cache rule, status code cache TTL, referer validation, IP ACL, User-Agent ACL, token authentication, remote authentication, IP access frequency, HTTP header, custom error page, smart compression, request rate limiting, WebSocket, video seek, origin SNI, access URL rewriting, browser cache TTL, geo-blocking settings, and client certificate settings.

- A single tenant can call this API 200 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.1/cdn/configuration/domains/{domain_name}/configs

Table 4-87 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-88 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

Request Parameters

Table 4-89 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-90 Request body parameters

Parameter	Mandatory	Type	Description
configs	No	Configs object	**Definition** Configuration items. **Constraints** N/A

Table 4-91 Configs

Parameter	Mandatory	Type	Description
business_type	No	String	**Definition** Service type. **Constraints** Whole site acceleration cannot be changed to other service types. **Range** • **web**: website acceleration. • **download**: file download acceleration. • **video**: on-demand service acceleration. **Default Value** N/A

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Parameter	Mandatory	Type	Description
service_area	No	String	**Definition** Service area of the acceleration domain name. Client access requests are scheduled to CDN PoPs in the service area. You can select a proper area based on your user location. **Constraints** • Currently, the service area cannot be changed between **mainland_china** and **outside_mainland_china**. • If the service area is changed to **mainland_china** or **global**, the domain name must be licensed by the MIIT. **Range** • **mainland_china**: Chinese mainland. • **global**: global. • **outside_mainland_china**: outside the Chinese mainland. **Default Value** N/A
remark	No	String	**Definition** Domain name remarks. **Constraints** N/A **Range** 0 to 10,000 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
origin_request_header	No	Array of **OriginRequestHeader** objects	**Definition** Origin request headers. During origin pull, CDN PoPs perform operations on HTTP origin request headers based on your settings. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
http_response_header	No	Array of **HttpResponseHeader** objects	**Definition** HTTP response headers. When CDN PoPs respond to clients, they perform operations on HTTP response headers based on your settings. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special response header is configured for the domain name in the backend, pass this header as well.
url_auth	No	**UrlAuth** object	**Definition** Token authentication, which protects your website resources from being downloaded by malicious users. **Constraints** N/A

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Parameter	Mandatory	Type	Description
https	No	**HttpPutBody** object	**Definition** Add a certificate on CDN PoPs to allow clients to access PoPs using HTTPS. **Constraints** N/A
sources	No	Array of **SourcesConfig** objects	**Definition** Origin server of the acceleration domain name. CDN caches origin content on PoPs so that your content loads faster. **Constraints** N/A
origin_protocol	No	String	**Definition** Request protocol for CDN origin pull. **Constraints** N/A **Range** • **follow**: same as user. • **http**: HTTP. • **https**: HTTPS. **Default Value** http
origin_follow302_status	No	String	**Definition** Whether to enable redirect from origin. If the origin server uses 301/302 redirection, CDN PoPs redirect to the address specified in a 301/302 response, cache the resource, and return it to the user. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
cache_rules	No	Array of **CacheRules** objects	**Definition** Parameters used to control the cache TTL of origin server resources on CDN PoPs. **Constraints** There must be a rule for all file types.
ip_filter	No	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	No	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A
force_redirect	No	**ForceRedirectConfig** object	**Definition** This parameter is used to force clients to use HTTPS or HTTP when accessing CDN PoPs. **Constraints** N/A
compress	No	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A

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Parameter	Mandatory	Type	Description
cache_url_parameter_filter	No	CacheUrlParameterFilter object	**Definition** Settings of caching URL parameters. **NOTE** This old parameter will be deprecated recently. You are advised to use **CacheRules**. **Constraints** N/A
ipv6_accelerate	No	Integer	**Definition** Whether to enable IPv6 to allow clients to access CDN using IPv6. **Constraints** N/A **Range** • **1**: enabled. • **0**: disabled. **Default Value** N/A
error_code_cache	No	Array of ErrorCodeCache objects	**Definition** You can cache error codes returned by the origin server on CDN PoPs. When users request the same resources, CDN directly returns the error codes to the users. **Constraints** N/A

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Parameter	Mandatory	Type	Description
origin_range_status	No	String	**Definition** Range requests for origin pull. A range request allows the origin server to send data of a specific range to a CDN PoP based on the range information in the HTTP request header. **Constraints** To enable range requests for origin pull, the origin server must support range requests, that is, requests with the **Range** field in the headers. Otherwise, origin pull may fail. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
user_agent_filter	No	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A
origin_request_url_rewrite	No	Array of **OriginRequestUrlRewrite** objects	**Definition** Origin URL rewrite rules. This ensures that an origin request URL matches the URL of the origin server content. **Constraints** Up to 20 rules.
flexible_origin	No	Array of **flexibleOrigins** objects	**Definition** Advanced origin rules. CDN can pull content from different origin servers by resource type or path. **Constraints** Up to 20 rules.

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Parameter	Mandatory	Type	Description
slice_etag_status	No	String	**Definition** Whether to verify the ETag during origin pull. After this function is enabled, when a user requests a cached content from a PoP again, the ETag value is added for determining whether the cache expires. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
origin_receive_timeout	No	Integer	**Definition** Timeout interval for CDN PoP origin pull. If this time expires, origin pull fails. **Constraints** N/A **Range** 5 to 300, in seconds. **Default Value** N/A
remote_auth	No	**commonRemoteAuth** object	**Definition** Remote authentication. CDN can forward user requests to the authentication server you specify and determine whether to return requested content to users based on the server response. **Constraints** N/A

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Parameter	Mandatory	Type	Description
websocket	No	**webSocketSeek** object	**Definition** Whether to allow clients to access CDN PoPs using WebSocket. **NOTE** WebSocket works only for resources whose TTL is set to 0, TTL source is set to CDN, and forcible cache is enabled. **Constraints** • Only domain names for whole site acceleration support this configuration item. • WebSocket and HTTP/2 are incompatible and cannot be both enabled.
video_seek	No	**videoSeek** object	**Definition** Video seek settings. Users can seek to any position in a video without affecting the playback effect. **Constraints** • You have configured a cache rule for FLV and MP4 files and ignored all URL parameters in user requests. • Time-based FLV seek is valid only when video seek is enabled.
request_limit_rules	No	Array of **RequestLimitRules** objects	**Definition** Request rate limiting. This limits the user request rate within a specific range to reduce costs and the risk of burst bandwidth. **Constraints** N/A

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Parameter	Mandatory	Type	Description
ip_frequency_limit	No	**IpFrequencyLimit** object	**Definition** IP access frequency. You can limit the number of times that a single IP address accesses a single PoP per second to defend against CC attacks and malicious theft. **NOTE** When the threshold is reached, CDN returns status code 403. The restriction is removed 10 minutes later. **Constraints** N/A
hsts	No	**Hsts** object	**Definition** HSTS, which forces clients (such as browsers) to use HTTPS to access your server, improving access security. **Constraints** N/A
quic	No	**Quic** object	**Definition** QUIC. Using QUIC to access CDN PoPs improves transmission security, reduces transmission and connection latency, and prevents network congestion. **Constraints** N/A
error_code_redirect_rules	No	Array of **ErrorCodeRedirectRules** objects	**Definition** Custom error page. When an error occurs during user access, CDN returns this error page to clients, optimizing user experience. **Constraints** N/A

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Parameter	Mandatory	Type	Description
sni	No	**Sni** object	**Definition** Origin SNI. If your origin server IP address is bound to multiple domain names and CDN visits the origin server using HTTPS, specify the domain name to be visited by CDN during handshake. **Constraints** N/A
request_url_rewrite	No	Array of **RequestUrlRewrite** objects	**Definition** Access URL rewrite rules, which are used to redirect user requests to the URLs of cached content. **Constraints** N/A
browser_cache_rules	No	Array of **BrowserCacheRules** objects	**Definition** Browser cache TTL, during which users can obtain content directly from their browser cache (if available). **Constraints** N/A
access_area_filter	No	Array of **AccessAreaFilter** objects	**Definition** Geo-blocking, which prevents users in certain geographical locations from accessing your content. **NOTE** IP addresses belong to carriers and change irregularly. Although Huawei Cloud periodically updates the IP address library, the update may be delayed. As a result, some access control functions may occasionally block or allow requests, or client requests may not be scheduled to the optimal PoP. **Constraints** N/A

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Parameter	Mandatory	Type	Description
client_cert	No	ClientCert object	**Definition** Client certificate, which enforces mutual certificate authentication between clients and CDN PoPs, securing website communication. **Constraints** N/A

Table 4-92 OriginRequestHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). • Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. • Chinese characters are not allowed. • Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

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Table 4-93 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+| ^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A

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Parameter	Mandatory	Type	Description
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

Table 4-94 UrlAuth

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Whether to enable token authentication. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition** Signing method. **Constraints** N/A **Range** • **type_a**: method A. • **type_b**: method B. • **type_c1**: method C1. • **type_c2**: method C2. **Default Value** N/A
expire_time	No	Integer	**Definition** How long a signed URL remains effective. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **Default Value** N/A
sign_method	No	String	**Definition** Encryption algorithm. **Constraints** N/A **Range** • md5 • sha256 **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_type	No	String	**Definition** Authentication scope, that is, files to authenticate. **Constraints** N/A **Range** • **all**: all files. • **include_file_extension**: files with specified extensions. • **exclude_file_extension**: files without specified extensions. **Default Value** N/A
match_rule	No	String	**Definition** Rules for matching files to authenticate. **Constraints** N/A **Range** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **include_file_extension** or **exclude_file_extension**, enter the file name extensions. Start an extension with a period (.) and separate multiple extensions by commas (,). Example: **.jpg,.zip,.exe**. **Default Value** N/A

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Parameter	Mandatory	Type	Description
inherit_config	No	InheritConfig object	**Definition** Authentication inheritance. Authentication parameters are added to TS and MP4 files under M3U8/MPD index files, so that the files can be played after authentication succeeds. **Constraints** N/A
key	No	String	**Definition** Authentication key. **Constraints** N/A **Range** • Enter 6 to 32 characters. • Use only letters and digits. **Default Value** N/A
backup_key	No	String	**Definition** Secondary authentication key. If you want both the old and new keys to take effect, you can set the old key as the secondary key. Users can access content only after CDN verifies the primary or secondary key. **Constraints** N/A **Range** • Enter 6 to 32 characters. • Use only letters and digits. **Default Value** N/A

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Parameter	Mandatory	Type	Description
sign_arg	No	String	**Definition** Authentication parameter carried in a URL. **Constraints** Mandatory when signing method A or C2 is used. **Range** • Enter 1 to 100 characters. • Use only letters, digits, and underscores (_). Do not start with a digit. **Default Value** auth_key
time_format	No	String	**Definition** Time format. **Constraints** • Method A supports only the decimal format. • Method B supports only the decimal format. • Method C1 supports only the hexadecimal format. • Method C2 supports both decimal and hexadecimal formats. **Range** • **dec**: decimal. • **hex**: hexadecimal. **Default Value** N/A

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Parameter	Mandatory	Type	Description
time_arg	No	String	**Definition** Time parameter name. **Constraints** Optional when signing method C2 is used. **Range** • Enter 1 to 100 characters. • Start with a letter. Use only letters, digits, and underscores (_). **Default Value** timestamp

Table 4-95 InheritConfig

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Whether to enable authentication inheritance. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
inherit_type	No	String	**Definition** Authentication inheritance settings. **Constraints** • Separate parameters by commas (,). Example: **m3u8,mpd**. • This parameter is mandatory when authentication inheritance is enabled. **Range** • m3u8 • mpd **Default Value** N/A
inherit_time_type	No	String	**Definition** Inheritance start time. **Constraints** This parameter is mandatory when authentication inheritance is enabled. **Range** • **sys_time**: current system time. • **parent_url_time**: time when a user accesses the M3U8/MPD file. **Default Value** N/A

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Table 4-96 HttpPutBody

Parameter	Mandatory	Type	Description
https_status	No	String	**Definition** Certificate status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
certificate_type	No	String	**Definition** Certificate type. **Constraints** N/A **Range** • **server**: international certificate. • **server_sm**: Chinese (SM2) certificate. **Default Value** N/A
certificate_source	No	Integer	**Definition** Certificate source. **Constraints** Mandatory when a certificate is configured. **Range** • **0**: your certificate. • **2**: SCM certificate. **Default Value** N/A

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Parameter	Mandatory	Type	Description
scm_certificate_id	No	String	**Definition** SCM certificate ID, which can be obtained using the CCM API for listing certificates. **Constraints** Mandatory when an SCM certificate is configured. **Range** N/A **Default Value** N/A
certificate_name	No	String	**Definition** Certificate name. **Constraints** • Mandatory when a certificate is configured. • 3 to 64 characters. **Range** N/A **Default Value** N/A
certificate_value	No	String	**Definition** Certificate used by the HTTPS protocol. **Constraints** • Only the PEM format is supported. • This parameter is mandatory when a certificate is configured. • A complete certificate chain is required. **Range** The certificate chain cannot exceed 20 KB. **Default Value** N/A

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Parameter	Mandatory	Type	Description
private_key	No	String	**Definition** Private key used by the HTTPS protocol. **Constraints** • This parameter is mandatory when a certificate is configured. • Only the PEM format is supported. **Range** N/A **Default Value** N/A
enc_certificate_value	No	String	**Definition** Encryption certificate content. **Constraints** • Mandatory when a Chinese (SM2) certificate is used. • Only the PEM format is supported. **Range** N/A **Default Value** N/A
enc_private_key	No	String	**Definition** Encryption private key. **Constraints** • Mandatory when a Chinese (SM2) certificate is used. • Only the PEM format is supported. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
certificates	No	Array of **CertificatesPutBody** objects	**Definition** Certificate configuration request body. **Constraints** • Mandatory when two certificates are configured. • Two international certificates or two Chinese (SM2) certificates cannot be configured. • If an international certificate, Chinese (SM2) certificate, or both certificates are passed in **certificates**, the outer certificate settings become invalid. The certificate information specified by this parameter is used.
http2_status	No	String	**Definition** Whether to enable HTTP/2 to allow clients to use HTTP/2 when accessing CDN PoPs. **Constraints** When **https_status** is set to **off**, this parameter does not take effect. **Range** • **on**: yes. • **off**: no. **Default Value** off

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Parameter	Mandatory	Type	Description
tls_version	No	String	**Definition** Transport Layer Security (TLS) protocol, that is, TLS version settings. **Constraints** • Enable at least one version. • Enable only one version or consecutive versions. For example, you cannot enable TLS 1.0 and TLS 1.2 but disable TLS 1.1. • Separate versions by commas (,). Example: **TLSv1.1,TLSv1.2**. • An international certificate has been enabled before you configure TLS versions. **Range** Range: **TLSv1.0**, **TLSv1.1**, **TLSv1.2**, and **TLSv1.3**. **Default Value** TLSv1.1,TLSv1.2,TLSv1.3
ocsp_stapling_status	No	String	**Definition** Whether to enable OCSP stapling. **Constraints** N/A **Range** • **on**: yes. • **off**: no. **Default Value** N/A

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Table 4-97 CertificatesPutBody

Parameter	Mandatory	Type	Description
certificate_source	No	Integer	**Definition** Certificate source. **Constraints** N/A **Range** • **0**: your certificate. • **2**: SCM certificate. **Default Value** N/A
scm_certificate_id	No	String	**Definition** SCM certificate ID, which can be obtained using the CCM API for listing certificates. **Constraints** Mandatory when an SCM certificate is configured. **Range** N/A **Default Value** N/A
certificate_type	Yes	String	**Definition** Certificate type. **Constraints** N/A **Range** • **server**: international certificate. • **server_sm**: Chinese (SM2) certificate. **Default Value** N/A

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Parameter	Mandatory	Type	Description
certificate_name	Yes	String	**Definition** Certificate name. **Constraints** N/A **Range** 3 to 64 characters. **Default Value** N/A
certificate_value	Yes	String	**Definition** Certificate used by the HTTPS protocol. **Constraints** Only the PEM format is supported. **Range** N/A **Default Value** N/A
private_key	Yes	String	**Definition** Private key used by the HTTPS protocol. **Constraints** Only the PEM format is supported. **Range** N/A **Default Value** N/A
enc_certificate_value	No	String	**Definition** Encryption certificate content. **Constraints** • Mandatory when a Chinese (SM2) certificate is used. • Only the PEM format is supported. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
enc_private_key	No	String	**Definition** Encryption private key. **Constraints** • Mandatory when a Chinese (SM2) certificate is used. • Only the PEM format is supported. **Range** N/A **Default Value** N/A

Table 4-98 SourcesConfig

Parameter	Mandatory	Type	Description
origin_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket. To use this type of origin servers, submit a service ticket. **Default Value** N/A

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Parameter	Mandatory	Type	Description
origin_addr	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
priority	Yes	Integer	**Definition** Origin server priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
weight	No	Integer	**Definition** Weight. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
obs_web_hosting_status	No	String	**Definition** Whether to enable OBS static website hosting. **Constraints** Mandatory when the origin server type is set to **obs_bucket**. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443
host_name	No	String	**Definition** Host header. **Constraints** N/A **Range** N/A **Default Value** Acceleration domain name.

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Parameter	Mandatory	Type	Description
obs_bucket_type	No	String	**Definition** OBS pull authentication status. This function applies when an OBS bucket is used as an origin server. Enable the function if access to the bucket requires authentication. In this way, CDN PoPs carry the authentication information during origin pull. If the information does not match the OBS bucket, origin pull fails, preventing unauthorized traffic theft. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: enabled. • **public**: disabled. **Default Value** public
bucket_access_key	No	String	**Definition** Access key ID (AK) for accessing the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
bucket_secret_key	No	String	**Definition** Secret access key (SK) for accessing the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_region	No	String	**Definition** Region of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_name	No	String	**Definition** Name of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Table 4-99 CacheRules

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_value	No	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
ttl	No	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Yes	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	No	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Mandatory	Type	Description
url_parameter_type	No	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	No	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-100 IpFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** IP ACL type. **Constraints** N/A **Range** • **off**: The IP ACL is disabled. • **black**: IP address blacklist. • **white**: IP address whitelist. **Default Value** N/A
value	No	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

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Table 4-101 RefererConfig

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A
value	No	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
include_empty	No	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

Table 4-102 ForceRedirectConfig

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Force redirect status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition** Protocol to which requests are forcibly redirected. **Constraints** If force redirect to HTTPS is enabled, an HTTPS certificate must be configured. Otherwise, the access will fail. **Range** • **http**: force redirect to HTTP. • **https**: force redirect to HTTPS. **Default Value** N/A
redirect_code	No	Integer	**Definition** Redirect status code. **Constraints** N/A **Range** • 301 • 302 • 307 **Default Value** N/A

Table 4-103 Compress

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Smart compression status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
type	No	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). • **gzip**: gzip compression. • **br**: Brotli compression. **Default Value** N/A
file_type	No	String	**Definition** Types of files to compress. **Constraints** N/A **Range** • Enter up to 2,000 characters. • Enter up to 50 characters for each type. • Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.

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Parameter	Mandatory	Type	Description
compress_min_length	No	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A
compress_max_length	No	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A

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Table 4-104 CacheUrlParameterFilter

Parameter	Mandatory	Type	Description
type	No	String	**Definition** Operation type of URL parameters, that is, the URL parameters to cache when a resource is cached. **Constraints** N/A **Range** • **full_url**: Cache all parameters. • **ignore_url_params**: Ignore all parameters. • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. **NOTE** The following parameters of this API are adjusted: Replaced **del_args** with **del_params**. Replaced **reserve_args** with **reserve_params**. **Default Value** N/A
value	No	String	**Definition** URL parameters. **Constraints** Separate parameters by semicolons (;). **Range** N/A **Default Value** N/A

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Table 4-105 ErrorCodeCache

Parameter	Mandatory	Type	Description
code	No	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, 407, 414, 416, and 451. • 5*xx*: 500, 501, 502, 503, 504, 509, and 514. **Default Value** N/A
ttl	No	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

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Table 4-106 UserAgentFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A
value	No	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,/'#!@$^&+=~?"[]{}:% **Default Value** N/A

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Parameter	Mandatory	Type	Description
include_empty	No	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.
ua_list	No	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

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Table 4-107 OriginRequestUrlRewrite

Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Priority of a URL rewrite rule. **NOTE** A larger value indicates a higher priority. CDN executes the URL rewrite rule with a higher priority. **Constraints** • The priority of a rule must be unique. • The priority cannot be empty. **Range** 1 to 100. **Default Value** N/A
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_path**: URI path. • **wildcard**: wildcard. • **full_path**: full path. **Default Value** N/A

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Parameter	Mandatory	Type	Description
source_url	No	String	**Definition** URI to rewrite. **Constraints** If the match mode is set to all files, this parameter cannot be configured. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example, **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A
target_url	Yes	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

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Table 4-108 flexibleOrigins

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** URI match mode. **Constraints** N/A **Range** • **file_extension**: file name extension. • **file_path**: directory. **Default Value** N/A
match_pattern	Yes	String	**Definition** URI match rule. **Constraints** When **match_type** is set to **file_extension**: • All file types are supported. • Start a file type with a period (.). Separate file types by semicolons (;). • Enter up to 20 file types. When **match_type** is set to **file_path**: • Start a directory with a slash (/). • Separate directories by semicolons (;). – Enter up to 20 directories. **NOTE** File types are case-sensitive. **Range** 1 to 512 characters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Priority. **NOTE** A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
back_sources	Yes	Array of **backSources** objects	**Definition** Origin server accessed by CDN PoPs for origin pull when a client request matches this rule. **Constraints** Only one origin server in each rule. **Range** N/A **Default Value** N/A

Table 4-109 backSources

Parameter	Mandatory	Type	Description
sources_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. **Default Value** N/A

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Parameter	Mandatory	Type	Description
ip_or_domain	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	No	String	**Definition** OBS bucket type. **Constraints** N/A **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443

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Table 4-110 commonRemoteAuth

Parameter	Mandatory	Type	Description
remote_authentication	Yes	String	**Definition** Whether to enable remote authentication. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
remote_auth_rules	Yes	**RemoteAuthRule** object	**Definition** Remote authentication settings. **Constraints** N/A

Table 4-111 RemoteAuthRule

Parameter	Mandatory	Type	Description
auth_server	Yes	String	**Definition** Address of a reachable authentication server. **Constraints** • The address must contain http:// or https://. • It cannot be a local address such as localhost or 127.0.0.1. • It cannot be an acceleration domain name added on CDN. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
request_method	Yes	String	**Definition** Request method supported by the authentication server. **Constraints** N/A **Range** • GET • POST • HEAD **Default Value** N/A
file_type_setting	Yes	String	**Definition** Range of files to authenticate. **Constraints** N/A **Range** • **all**: all files. • **specific_file**: files of the specified types. Example: **jpg|MP4**. **NOTE** File types are case-insensitive. For example, **jpg** and **JPG** indicate the same file type. File types are separated by vertical bars (|). **Default Value** N/A

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Parameter	Mandatory	Type	Description
specified_file_type	No	String	**Definition** Types of files to authenticate. **Constraints** • This parameter is mandatory when **file_type_setting** is set to **specific_file**. In other cases, it is left blank. • Separate file types by vertical bars (|). Example: **jpg|mp4**. • This parameter is verified only when it is mandatory. **Range** • Enter 1 to 512 characters. • Use only letters and digits. **Default Value** N/A
reserve_args_setting	Yes	String	**Definition** Whether to retain or ignore parameters for authentication. **Constraints** N/A **Range** • **reserve_all_args**: Retain all URL parameters. • **reserve_specific_args**: Retain specific URL parameters. • **ignore_all_args**: Ignore all URL parameters. **Default Value** N/A

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Parameter	Mandatory	Type	Description
reserve_args	No	String	**Definition** Parameters. **Constraints** • This parameter is mandatory when **reserve_args_setting** is set to **reserve_specific_args**. In other cases, this parameter is left blank. • Separate parameters by vertical bars (|). Example: **key1|key2**. **Range** N/A **Default Value** N/A
add_custom_args_rules	No	Array of **customArgs** objects	**Definition** Parameters to be added when CDN PoPs forward user requests to the remote authentication server. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
reserve_headers_setting	Yes	String	**Definition** Whether to retain or ignore request headers when CDN PoPs forward user requests to the remote authentication server. **Constraints** N/A **Range** • **reserve_all_headers**: Retain all request headers. • **reserve_specific_headers**: Retain specific request headers. • **ignore_all_headers**: Ignore all request headers. **Default Value** N/A
add_custom_headers_rules	No	Array of **customArgs** objects	**Definition** Request headers to authenticate. **Constraints** N/A **Range** N/A **Default Value** N/A
auth_success_status	Yes	String	**Definition** Status code returned by the remote authentication server to CDN PoPs when authentication is successful. **Constraints** N/A **Range** • 2*xx* • 3*xx* **Default Value** N/A

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Parameter	Mandatory	Type	Description
auth_failed_status	Yes	String	**Definition** Status code returned by the remote authentication server to CDN PoPs when authentication fails. **Constraints** N/A **Range** • 4*xx* • 5*xx* **Default Value** N/A
response_status	Yes	String	**Definition** Status code returned by CDN PoPs to users when authentication fails. **Constraints** N/A **Range** • 2*xx* • 3*xx* • 4*xx* • 5*xx* **Default Value** N/A

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Parameter	Mandatory	Type	Description
timeout	Yes	Integer	**Definition** Authentication timeout interval, that is, the interval from the time when a CDN PoP forwards an authentication request to the time when the CDN PoP receives the result returned by the remote authentication server. **Constraints** N/A **Range** 0 or 50 to 3,000, in milliseconds. **Default Value** N/A
timeout_action	Yes	String	**Definition** Method used by CDN PoPs to process a user request after authentication times out. **Constraints** N/A **Range** • **pass**: The user request will be accepted and the requested resource will be returned. • **forbid**: The user request will be rejected and the configured custom response status code will be returned. **Default Value** N/A

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Parameter	Mandatory	Type	Description
reserve_headers	No	String	**Definition** Request headers to retain. **Constraints** • This parameter is mandatory when **reserve_headers_setting** is set to **reserve_specific_headers**. In other cases, this parameter is left blank. • Separate request headers by vertical bars (|). Example: **key1|key2**. **Range** N/A **Default Value** N/A

Table 4-112 customArgs

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Parameter type. **Constraints** N/A **Range** • **custom_var**: custom. • **nginx_preset_var**: preset variable. **Default Value** N/A

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Parameter	Mandatory	Type	Description
key	Yes	String	**Definition** Parameter name. **Constraints** N/A **Range** • Enter 1 to 256 characters. • Use only letters, digits, and the following special characters: ._-*#%|+^@?= **Default Value** N/A
value	Yes	String	**Definition** Parameter value. **Constraints** N/A **Range** • When **type** is set to **custom_var**, enter 1 to 256 characters and use only letters, digits, and the following special characters: ._-*#%|+^@?= • When **type** is set to **nginx_preset_var**, the value can only be set to **$http_host**, **$http_user_agent**, **$http_referer**, **$http_x_forwarded_for**, **$http_content_type**, **$remote_addr**, **$scheme**, **$server_protocol**, **$request_uri**, **$uri**, **$args**, and **$request_method**. **Default Value** N/A

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Table 4-113 webSocketSeek

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Whether to enable the WebSocket protocol. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
timeout	No	Integer	**Definition** Duration for keeping a connection open. **Constraints** N/A **Range** 1 to 300, in seconds. This parameter is mandatory when **status** is set to **on**. **Default Value** N/A

Table 4-114 videoSeek

Parameter	Mandatory	Type	Description
enable_video_seek	Yes	Boolean	**Definition** Video seek status. **Constraints** When this parameter is set to **false**, the API for querying domain name configuration does not return the video seek settings. **Range** • **true**: enabled. • **false**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
enable_flv_by_time_seek	No	Boolean	**Definition** Time-based FLV seek status. **Constraints** N/A **Range** • **true**: enabled. • **false**: disabled. **Default Value** N/A
start_parameter	No	String	**Definition** Start parameter of video playback in URLs requested by users. **Constraints** N/A **Range** • Enter 1 to 64 characters. • Use only letters, digits, and underscores (_). **Default Value** N/A
end_parameter	No	String	**Definition** End parameter of video playback in URLs requested by users. **Constraints** N/A **Range** • Enter 1 to 64 characters. • Use only letters, digits, and underscores (_). **Default Value** N/A

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Table 4-115 RequestLimitRules

Parameter	Mandatory	Type	Description
status	No	String	**Definition** Whether to enable request rate limiting. **NOTE** • This parameter is used in earlier APIs and will be deprecated. • The value can only be **on**. **off** is invalid. **Constraints** If **request_limit_rules** is left empty, request rate limiting is disabled. **Range** on **Default Value** N/A
priority	Yes	Integer	**Definition** Priority. **NOTE** A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **catalog**: directory. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_value	No	String	**Definition** Match type value. **Constraints** • When **match_type** is set to **all**, leave this parameter empty. • When **match_type** is set to **catalog**, the value is a directory address starting with a slash (/), for example, **/test**. • This parameter is mandatory when **match_type** is set to **catalog**. **Range** N/A **Default Value** N/A
type	Yes	String	**Definition** Rate limit mode. **Constraints** Currently, only rate limit by traffic is supported. This parameter can only be set to **size**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
limit_rate_after	Yes	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A
limit_rate_value	Yes	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A
limit_time	No	String	**Definition** Periods when the rate is limited. **Constraints** • Periods are in the 24-hour clock. Period format: HHMM-HHMM (in UTC +08:00). • Separate periods by commas (,). Example: **0100-0200,2200-2300**. • Enter up to 10 periods. **Range** N/A **Default Value** 0000-2400

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Table 4-116 IpFrequencyLimit

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** IP access frequency status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
qps	No	Integer	**Definition** Access threshold. **Constraints** This parameter is mandatory when IP access frequency is enabled. **Range** 1 to 100,000, in requests per second. **Default Value** N/A

Table 4-117 Hsts

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** HSTS status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
max_age	No	Integer	**Definition** Expiration time, that is, the TTL of the response header **Strict-Transport-Security** on clients. **Constraints** This parameter is mandatory when **status** is set to **on**. **Range** 0 to 63,072,000, in seconds. **Default Value** N/A
include_subdomains	No	String	**Definition** Whether to include subdomain names. **Constraints** This parameter is mandatory when **status** is set to **on**. **Range** • **on**: yes. • **off**: no. **Default Value** N/A

Table 4-118 Quic

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** QUIC status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Table 4-119 ErrorCodeRedirectRules

Parameter	Mandatory	Type	Description
error_code	Yes	Integer	**Definition** Redirection error code. **Constraints** N/A **Range** • 4*xx*: 400, 403, 404, 405, 414, 416, and 451. • 5*xx*: 500, 501, 502, 503, and 504. **Default Value** N/A
target_code	Yes	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 **Default Value** N/A
target_link	Yes	String	**Definition** Destination URL. **Constraints** Start with http:// or https://. **Range** N/A **Default Value** N/A

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Table 4-120 Sni

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Whether to enable origin SNI. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
server_name	No	String	**Definition** SNI domain name used for HTTPS handshake during CDN PoP origin pull. **Constraints** • This parameter is mandatory when origin SNI is enabled. **Range** • Use only letters, digits, hyphens (-), and periods (.). **Default Value**

Table 4-121 RequestUrlRewrite

Parameter	Mandatory	Type	Description
condition	Yes	**UrlRewriteCondition** object	**Definition** Match condition. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
redirect_status_code	No	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A
redirect_url	Yes	String	**Definition** Redirection URL. **Constraints** • A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. • When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
redirect_host	No	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** • Enter 1 to 255 characters. • Start with http:// or https://. **Default Value** Acceleration domain name.
execution_mode	Yes	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

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Table 4-122 UrlRewriteCondition

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **catalog**: The rule is executed for files in the specified directory. • **full_path**: The rule is executed for the file of the specified path. **Default Value** N/A
match_value	Yes	String	**Definition** Match content. **Constraints** • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories. A directory starts with a slash (/). Directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A rule can contain only one full path. Example: **/test/index.html** or **/test/*.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Priority of the access URL rewrite rule. **NOTE** A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

Table 4-123 BrowserCacheRules

Parameter	Mandatory	Type	Description
condition	Yes	**BrowserCacheRulesCondition** object	**Definition** Match condition. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
cache_type	Yes	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	No	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A
ttl_unit	No	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Table 4-124 BrowserCacheRulesCondition

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_value	No	String	**Definition** Cache content based on the cache rule. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 20 file types. A file type starts with a period (.). File types are separated by commas (,). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories. A directory starts with a slash (/). Directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*), but cannot end with a wildcard (*). A wildcard (*) can only follow the last slash (/). A rule can contain only one full path. Example: **/test/index.html** or **/test/*.jpg**. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Priority of the browser cache rule. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** N/A **Default Value** 1 to 100.

Table 4-125 AccessAreaFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Rule type. **Constraints** N/A **Range** • **black**: blacklist. Users in regions specified in the blacklist cannot access resources and status code 403 is returned. • **white**: whitelist. Only users in regions specified in the whitelist can access resources. Status code 403 is returned for other users. **Default Value** N/A

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Parameter	Mandatory	Type	Description
content_type	Yes	String	**Definition** Content type. **Constraints** N/A **Range** • **all**: The rule takes effect for all files. • **file_directory**: The rule takes effect for resources in the specified directory. • **file_path**: The rule takes effect for resources corresponding to the path. **Default Value** N/A

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Parameter	Mandatory	Type	Description
content_value	No	String	**Definition** Rule. **Constraints** • When **content_type** is set to **all**, this parameter is empty or not passed. • When **content_type** is set to **file_directory**, the value is a list of up to 100 directories. A directory starts with a slash (/). Multiple directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **content_type** is set to **file_path**, the value is a list of up to 100 file paths. A path starts with a slash (/) or wildcard (*). Up to two wildcards (*) are allowed and they cannot be consecutive. Multiple paths are separated by commas (,). Example: **/test/a.txt,/test/b.txt**. • Each whitelist or blacklist rule must be unique. • You can configure only one rule for all files. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
area	Yes	String	**Definition** Regions to which the rule applies. **Constraints** • Separate regions by commas (,). • Example: **CN_IN,AF,IE,EG,AU** (Chinese mainland, Afghanistan, Ireland, Egypt, and Australia). For details about the location codes, see section "Appendix" > "Geographical Location Codes". **Range** N/A **Default Value** N/A
exception_ip	No	String	**Definition** Exception IP addresses excluded from this rule. **Constraints** N/A **Range** N/A **Default Value** N/A

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Table 4-126 ClientCert

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Client certificate status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
trusted_cert	Yes	String	**Definition** Content of the client CA certificate. **Constraints** Only the PEM format is supported. **Range** N/A **Default Value** N/A
hosts	No	String	**Definition** Domain names specified in the client CA certificate. **Constraints** • Leave this parameter blank to allow all requests from clients that hold the CA certificate. • Add up to 100 domain names. • Separate domain names by commas (,) or vertical bars (|). **Range** N/A **Default Value** N/A

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Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.1/cdn/configuration/domains/www.example.com/configs

{
  "configs" : {
    "origin_request_header" : [ {
      "name" : "test-name",
      "value" : "test_value",
      "action" : "set"
    } ],
    "http_response_header" : [ {
      "name" : "test-name",
      "value" : "test_value",
      "action" : "set"
    } ],
    "url_auth" : {
      "status" : "off"
    },
    "compress" : {
      "status" : "off"
    },
    "force_redirect" : {
      "status" : "on",
      "type" : "http",
      "redirect_code" : 301
    },
    "origin_protocol" : "follow",
    "referer" : {
      "type" : "black",
      "value" : "192.168.0.0",
      "include_empty" : true
    },
    "ip_filter" : {
      "type" : "black",
      "value" : "192.168.0.0"
    },
    "origin_follow302_status" : "off",
    "cache_rules" : [ {
      "match_type" : "file_extension",
      "match_value" : ".zip",
      "ttl" : 0,
      "ttl_unit" : "h",
      "priority" : 10,
      "follow_origin" : "off",
      "url_parameter_type" : "del_params",
      "url_parameter_value" : "test_param"
    } ],
    "sources" : [ {
      "origin_addr" : "www.example.com",
      "origin_type" : "domain",
      "priority" : 70,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "flexible_origin" : [ {
      "priority" : 1,
      "match_type" : "file_path",
      "match_pattern" : "/test",
      "back_sources" : [ {
```

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```
    "sources_type" : "domain",
    "ip_or_domain" : "www.back.example.com"
  } ]
} ],
"slice_etag_status" : "off",
"ipv6_accelerate" : 1,
"origin_receive_timeout" : 30,
"remote_auth" : {
  "remote_authentication" : "on",
  "remote_auth_rules" : {
    "auth_server" : "https://192.168.0.0",
    "request_method" : "GET",
    "file_type_setting" : "all",
    "reserve_args_setting" : "reserve_all_args",
    "reserve_headers_setting" : "reserve_specific_headers",
    "auth_success_status" : "200",
    "auth_failed_status" : "403",
    "response_status" : "403",
    "timeout" : 500,
    "timeout_action" : "pass",
    "reserve_headers" : "sf",
    "add_custom_args_rules" : [ {
      "type" : "nginx_preset_var",
      "key" : "http_host",
      "value" : "$http_host"
    } ],
    "add_custom_headers_rules" : [ {
      "type" : "nginx_preset_var",
      "key" : "http_host",
      "value" : "$http_host"
    } ]
  }
},
"websocket" : {
  "status" : "on",
  "timeout" : 60
},
"video_seek" : {
  "enable_video_seek" : true,
  "enable_flv_by_time_seek" : true,
  "start_parameter" : "start",
  "end_parameter" : "end"
},
"request_limit_rules" : [ {
  "status" : "on",
  "match_type" : "catalog",
  "match_value" : "/test",
  "type" : "size",
  "limit_rate_after" : 1024,
  "limit_rate_value" : 50,
  "priority" : 88
} ],
"sni" : {
  "status" : "on",
  "server_name" : "test.example.com"
},
"request_url_rewrite" : [ {
  "condition" : {
    "match_type" : "full_path",
    "match_value" : "/test/*.jpg",
    "priority" : 10
  },
  "redirect_status_code" : 301,
  "redirect_url" : "/test/index.html",
  "redirect_host" : "http://www.example.com",
  "execution_mode" : "redirect"
} ],
"browser_cache_rules" : [ {
  "condition" : {
```


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```
      "match_type" : "full_path",
      "match_value" : "/test/*.jpg",
      "priority" : 10
    },
    "cache_type" : "ttl",
    "ttl" : 20,
    "ttl_unit" : "h"
  } ],
  "access_area_filter" : [ {
    "type" : "black",
    "content_type" : "all",
    "area" : "CN_IN,AU",
    "exception_ip" : "0.0.0.0"
  } ],
  "client_cert" : {
    "status" : "on",
    "trusted_cert" : "certificate_example",
    "hosts" : "www.example.com"
  }
 }
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateDomainFullConfigSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateDomainFullConfigRequest request = new UpdateDomainFullConfigRequest();
        request.withDomainName("{domain_name}");
```

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```
ModifyDomainConfigRequestBody body = new ModifyDomainConfigRequestBody();
ClientCert clientCertConfigs = new ClientCert();
clientCertConfigs.withStatus("on")
    .withTrustedCert("certificate_example")
    .withHosts("www.example.com");
List<AccessAreaFilter> listConfigsAccessAreaFilter = new ArrayList<>();
listConfigsAccessAreaFilter.add(
    new AccessAreaFilter()
        .withType("black")
        .withContentType("all")
        .withArea("CN_IN,AU")
        .withExceptionIp("0.0.0.0")
);
BrowserCacheRulesCondition conditionBrowserCacheRules = new BrowserCacheRulesCondition();
conditionBrowserCacheRules.withMatchType("full_path")
    .withMatchValue("/test/*.jpg")
    .withPriority(10);
List<BrowserCacheRules> listConfigsBrowserCacheRules = new ArrayList<>();
listConfigsBrowserCacheRules.add(
    new BrowserCacheRules()
        .withCondition(conditionBrowserCacheRules)
        .withCacheType("ttl")
        .withTtl(20)
        .withTtlUnit("h")
);
UrlRewriteCondition conditionRequestUrlRewrite = new UrlRewriteCondition();
conditionRequestUrlRewrite.withMatchType("full_path")
    .withMatchValue("/test/*.jpg")
    .withPriority(10);
List<RequestUrlRewrite> listConfigsRequestUrlRewrite = new ArrayList<>();
listConfigsRequestUrlRewrite.add(
    new RequestUrlRewrite()
        .withCondition(conditionRequestUrlRewrite)
        .withRedirectStatusCode(301)
        .withRedirectUrl("/test/index.html")
        .withRedirectHost("http://www.example.com")
        .withExecutionMode("redirect")
);
Sni sniConfigs = new Sni();
sniConfigs.withStatus("on")
    .withServerName("test.example.com");
List<RequestLimitRules> listConfigsRequestLimitRules = new ArrayList<>();
listConfigsRequestLimitRules.add(
    new RequestLimitRules()
        .withStatus("on")
        .withPriority(88)
        .withMatchType("catalog")
        .withMatchValue("/test")
        .withType("size")
        .withLimitRateAfter(1024L)
        .withLimitRateValue(50)
);
VideoSeek videoSeekConfigs = new VideoSeek();
videoSeekConfigs.withEnableVideoSeek(true)
    .withEnableFlvByTimeSeek(true)
    .withStartParameter("start")
    .withEndParameter("end");
WebSocketSeek websocketConfigs = new WebSocketSeek();
websocketConfigs.withStatus("on")
    .withTimeout(60);
List<CustomArgs> listRemoteAuthRulesAddCustomHeadersRules = new ArrayList<>();
listRemoteAuthRulesAddCustomHeadersRules.add(
    new CustomArgs()
        .withType("nginx_preset_var")
        .withKey("http_host")
        .withValue("$http_host")
);
List<CustomArgs> listRemoteAuthRulesAddCustomArgsRules = new ArrayList<>();
listRemoteAuthRulesAddCustomArgsRules.add(
```

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```
        new CustomArgs()
            .withType("nginx_preset_var")
            .withKey("http_host")
            .withValue("$http_host")
    );
    RemoteAuthRule remoteAuthRulesRemoteAuth = new RemoteAuthRule();
    remoteAuthRulesRemoteAuth.withAuthServer("https://192.168.0.0")
        .withRequestMethod("GET")
        .withFileTypeSetting("all")
        .withReserveArgsSetting("reserve_all_args")
        .withAddCustomArgsRules(listRemoteAuthRulesAddCustomArgsRules)
        .withReserveHeadersSetting("reserve_specific_headers")
        .withAddCustomHeadersRules(listRemoteAuthRulesAddCustomHeadersRules)
        .withAuthSuccessStatus("200")
        .withAuthFailedStatus("403")
        .withResponseStatus("403")
        .withTimeout(500)
        .withTimeoutAction("pass")
        .withReserveHeaders("sf");
    CommonRemoteAuth remoteAuthConfigs = new CommonRemoteAuth();
    remoteAuthConfigs.withRemoteAuthentication("on")
        .withRemoteAuthRules(remoteAuthRulesRemoteAuth);
    List<BackSources> listFlexibleOriginBackSources = new ArrayList<>();
    listFlexibleOriginBackSources.add(
        new BackSources()
            .withSourcesType("domain")
            .withIpOrDomain("www.back.example.com")
    );
    List<FlexibleOrigins> listConfigsFlexibleOrigin = new ArrayList<>();
    listConfigsFlexibleOrigin.add(
        new FlexibleOrigins()
            .withMatchType("file_path")
            .withMatchPattern("/test")
            .withPriority(1)
            .withBackSources(listFlexibleOriginBackSources)
    );
    Compress compressConfigs = new Compress();
    compressConfigs.withStatus("off");
    ForceRedirectConfig forceRedirectConfigs = new ForceRedirectConfig();
    forceRedirectConfigs.withStatus("on")
        .withType("http")
        .withRedirectCode(301);
    RefererConfig refererConfigs = new RefererConfig();
    refererConfigs.withType("black")
        .withValue("192.168.0.0")
        .withIncludeEmpty(true);
    IpFilter ipFilterConfigs = new IpFilter();
    ipFilterConfigs.withType("black")
        .withValue("192.168.0.0");
    List<CacheRules> listConfigsCacheRules = new ArrayList<>();
    listConfigsCacheRules.add(
        new CacheRules()
            .withMatchType("file_extension")
            .withMatchValue(".zip")
            .withTtl(0)
            .withTtlUnit("h")
            .withPriority(10)
            .withFollowOrigin("off")
            .withUrlParameterType("del_params")
            .withUrlParameterValue("test_param")
    );
    List<SourcesConfig> listConfigsSources = new ArrayList<>();
    listConfigsSources.add(
        new SourcesConfig()
            .withOriginType("domain")
            .withOriginAddr("www.example.com")
            .withPriority(70)
            .withHttpPort(80)
            .withHttpsPort(443)
```

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```
        );
        UrlAuth urlAuthConfigs = new UrlAuth();
        urlAuthConfigs.withStatus("off");
        List<HttpResponseHeader> listConfigsHttpResponseHeader = new ArrayList<>();
        listConfigsHttpResponseHeader.add(
            new HttpResponseHeader()
                .withName("test-name")
                .withValue("test_value")
                .withAction("set")
        );
        List<OriginRequestHeader> listConfigsOriginRequestHeader = new ArrayList<>();
        listConfigsOriginRequestHeader.add(
            new OriginRequestHeader()
                .withName("test-name")
                .withValue("test_value")
                .withAction("set")
        );
        Configs configsbody = new Configs();
        configsbody.withOriginRequestHeader(listConfigsOriginRequestHeader)
            .withHttpResponseHeader(listConfigsHttpResponseHeader)
            .withUrlAuth(urlAuthConfigs)
            .withSources(listConfigsSources)
            .withOriginProtocol("follow")
            .withOriginFollow302Status("off")
            .withCacheRules(listConfigsCacheRules)
            .withIpFilter(ipFilterConfigs)
            .withReferer(refererConfigs)
            .withForceRedirect(forceRedirectConfigs)
            .withCompress(compressConfigs)
            .withIpv6Accelerate(1)
            .withFlexibleOrigin(listConfigsFlexibleOrigin)
            .withSliceEtagStatus("off")
            .withOriginReceiveTimeout(30)
            .withRemoteAuth(remoteAuthConfigs)
            .withWebsocket(websocketConfigs)
            .withVideoSeek(videoSeekConfigs)
            .withRequestLimitRules(listConfigsRequestLimitRules)
            .withSni(sniConfigs)
            .withRequestUrlRewrite(listConfigsRequestUrlRewrite)
            .withBrowserCacheRules(listConfigsBrowserCacheRules)
            .withAccessAreaFilter(listConfigsAccessAreaFilter)
            .withClientCert(clientCertConfigs);
        body.withConfigs(configsbody);
        request.withBody(body);
        try {
            UpdateDomainFullConfigResponse response = client.updateDomainFullConfig(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
```

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```
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateDomainFullConfigRequest()
        request.domain_name = "{domain_name}"
        clientCertConfigs = ClientCert(
            status="on",
            trusted_cert="certificate_example",
            hosts="www.example.com"
        )
        listAccessAreaFilterConfigs = [
            AccessAreaFilter(
                type="black",
                content_type="all",
                area="CN_IN,AU",
                exception_ip="0.0.0.0"
            )
        ]
        conditionBrowserCacheRules = BrowserCacheRulesCondition(
            match_type="full_path",
            match_value="/test/*.jpg",
            priority=10
        )
        listBrowserCacheRulesConfigs = [
            BrowserCacheRules(
                condition=conditionBrowserCacheRules,
                cache_type="ttl",
                ttl=20,
                ttl_unit="h"
            )
        ]
        conditionRequestUrlRewrite = UrlRewriteCondition(
            match_type="full_path",
            match_value="/test/*.jpg",
            priority=10
        )
        listRequestUrlRewriteConfigs = [
            RequestUrlRewrite(
                condition=conditionRequestUrlRewrite,
                redirect_status_code=301,
                redirect_url="/test/index.html",
                redirect_host="http://www.example.com",
                execution_mode="redirect"
            )
        ]
        sniConfigs = Sni(
            status="on",
            server_name="test.example.com"
        )
        listRequestLimitRulesConfigs = [
            RequestLimitRules(
                status="on",
                priority=88,
```

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```
        match_type="catalog",
        match_value="/test",
        type="size",
        limit_rate_after=1024,
        limit_rate_value=50
    )
]
videoSeekConfigs = VideoSeek(
    enable_video_seek=True,
    enable_flv_by_time_seek=True,
    start_parameter="start",
    end_parameter="end"
)
websocketConfigs = WebSocketSeek(
    status="on",
    timeout=60
)
listAddCustomHeadersRulesRemoteAuthRules = [
    CustomArgs(
        type="nginx_preset_var",
        key="http_host",
        value="$http_host"
    )
]
listAddCustomArgsRulesRemoteAuthRules = [
    CustomArgs(
        type="nginx_preset_var",
        key="http_host",
        value="$http_host"
    )
]
remoteAuthRulesRemoteAuth = RemoteAuthRule(
    auth_server="https://192.168.0.0",
    request_method="GET",
    file_type_setting="all",
    reserve_args_setting="reserve_all_args",
    add_custom_args_rules=listAddCustomArgsRulesRemoteAuthRules,
    reserve_headers_setting="reserve_specific_headers",
    add_custom_headers_rules=listAddCustomHeadersRulesRemoteAuthRules,
    auth_success_status="200",
    auth_failed_status="403",
    response_status="403",
    timeout=500,
    timeout_action="pass",
    reserve_headers="sf"
)
remoteAuthConfigs = CommonRemoteAuth(
    remote_authentication="on",
    remote_auth_rules=remoteAuthRulesRemoteAuth
)
listBackSourcesFlexibleOrigin = [
    BackSources(
        sources_type="domain",
        ip_or_domain="www.back.example.com"
    )
]
listFlexibleOriginConfigs = [
    FlexibleOrigins(
        match_type="file_path",
        match_pattern="/test",
        priority=1,
        back_sources=listBackSourcesFlexibleOrigin
    )
]
compressConfigs = Compress(
    status="off"
)
forceRedirectConfigs = ForceRedirectConfig(
    status="on",
```

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```
        type="http",
        redirect_code=301
    )
    refererConfigs = RefererConfig(
        type="black",
        value="192.168.0.0",
        include_empty=True
    )
    ipFilterConfigs = IpFilter(
        type="black",
        value="192.168.0.0"
    )
    listCacheRulesConfigs = [
        CacheRules(
            match_type="file_extension",
            match_value=".zip",
            ttl=0,
            ttl_unit="h",
            priority=10,
            follow_origin="off",
            url_parameter_type="del_params",
            url_parameter_value="test_param"
        )
    ]
    listSourcesConfigs = [
        SourcesConfig(
            origin_type="domain",
            origin_addr="www.example.com",
            priority=70,
            http_port=80,
            https_port=443
        )
    ]
    urlAuthConfigs = UrlAuth(
        status="off"
    )
    listHttpResponseHeaderConfigs = [
        HttpResponseHeader(
            name="test-name",
            value="test_value",
            action="set"
        )
    ]
    listOriginRequestHeaderConfigs = [
        OriginRequestHeader(
            name="test-name",
            value="test_value",
            action="set"
        )
    ]
    configsbody = Configs(
        origin_request_header=listOriginRequestHeaderConfigs,
        http_response_header=listHttpResponseHeaderConfigs,
        url_auth=urlAuthConfigs,
        sources=listSourcesConfigs,
        origin_protocol="follow",
        origin_follow302_status="off",
        cache_rules=listCacheRulesConfigs,
        ip_filter=ipFilterConfigs,
        referer=refererConfigs,
        force_redirect=forceRedirectConfigs,
        compress=compressConfigs,
        ipv6_accelerate=1,
        flexible_origin=listFlexibleOriginConfigs,
        slice_etag_status="off",
        origin_receive_timeout=30,
        remote_auth=remoteAuthConfigs,
        websocket=websocketConfigs,
        video_seek=videoSeekConfigs,
```

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```
            request_limit_rules=listRequestLimitRulesConfigs,
            sni=sniConfigs,
            request_url_rewrite=listRequestUrlRewriteConfigs,
            browser_cache_rules=listBrowserCacheRulesConfigs,
            access_area_filter=listAccessAreaFilterConfigs,
            client_cert=clientCertConfigs
        )
        request.body = ModifyDomainConfigRequestBody(
            configs=configsbody
        )
        response = client.update_domain_full_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDomainFullConfigRequest{}
    request.DomainName = "{domain_name}"
    hostsClientCert:= "www.example.com"
    clientCertConfigs := &model.ClientCert{
        Status: "on",
        TrustedCert: "certificate_example",
        Hosts: &hostsClientCert,
    }
    typeAccessAreaFilter:= "black"
    contentTypeAccessAreaFilter:= "all"
    areaAccessAreaFilter:= "CN_IN,AU"
    exceptionIpAccessAreaFilter:= "0.0.0.0"
    var listAccessAreaFilterConfigs = []model.AccessAreaFilter{
        {
            Type: &typeAccessAreaFilter,
            ContentType: &contentTypeAccessAreaFilter,
            Area: &areaAccessAreaFilter,
            ExceptionIp: &exceptionIpAccessAreaFilter,
        },
```

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```
}
matchValueCondition:= "/test/*.jpg"
conditionBrowserCacheRules := &model.BrowserCacheRulesCondition{
    MatchType: "full_path",
    MatchValue: &matchValueCondition,
    Priority: int32(10),
}
ttlBrowserCacheRules:= int32(20)
ttlUnitBrowserCacheRules:= "h"
var listBrowserCacheRulesConfigs = []model.BrowserCacheRules{
    {
        Condition: conditionBrowserCacheRules,
        CacheType: "ttl",
        Ttl: &ttlBrowserCacheRules,
        TtlUnit: &ttlUnitBrowserCacheRules,
    },
}
conditionRequestUrlRewrite := &model.UrlRewriteCondition{
    MatchType: "full_path",
    MatchValue: "/test/*.jpg",
    Priority: int32(10),
}
redirectStatusCodeRequestUrlRewrite:= int32(301)
redirectHostRequestUrlRewrite:= "http://www.example.com"
var listRequestUrlRewriteConfigs = []model.RequestUrlRewrite{
    {
        Condition: conditionRequestUrlRewrite,
        RedirectStatusCode: &redirectStatusCodeRequestUrlRewrite,
        RedirectUrl: "/test/index.html",
        RedirectHost: &redirectHostRequestUrlRewrite,
        ExecutionMode: "redirect",
    },
}
serverNameSni:= "test.example.com"
sniConfigs := &model.Sni{
    Status: "on",
    ServerName: &serverNameSni,
}
statusRequestLimitRules:= "on"
matchValueRequestLimitRules:= "/test"
var listRequestLimitRulesConfigs = []model.RequestLimitRules{
    {
        Status: &statusRequestLimitRules,
        Priority: int32(88),
        MatchType: "catalog",
        MatchValue: &matchValueRequestLimitRules,
        Type: "size",
        LimitRateAfter: int64(1024),
        LimitRateValue: int32(50),
    },
}
enableFlvByTimeSeekVideoSeek:= true
startParameterVideoSeek:= "start"
endParameterVideoSeek:= "end"
videoSeekConfigs := &model.VideoSeek{
    EnableVideoSeek: true,
    EnableFlvByTimeSeek: &enableFlvByTimeSeekVideoSeek,
    StartParameter: &startParameterVideoSeek,
    EndParameter: &endParameterVideoSeek,
}
websocketConfigs := &model.WebSocketSeek{
    Status: "on",
    Timeout: int32(60),
}
var listAddCustomHeadersRulesRemoteAuthRules = []model.CustomArgs{
    {
        Type: "nginx_preset_var",
        Key: "http_host",
        Value: "$http_host",
```

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```
    },
}
var listAddCustomArgsRulesRemoteAuthRules = []model.CustomArgs{
    {
        Type: "nginx_preset_var",
        Key: "http_host",
        Value: "$http_host",
    },
}
reserveHeadersRemoteAuthRules:= "sf"
remoteAuthRulesRemoteAuth := &model.RemoteAuthRule{
    AuthServer: "https://192.168.0.0",
    RequestMethod: "GET",
    FileTypeSetting: "all",
    ReserveArgsSetting: "reserve_all_args",
    AddCustomArgsRules: &listAddCustomArgsRulesRemoteAuthRules,
    ReserveHeadersSetting: "reserve_specific_headers",
    AddCustomHeadersRules: &listAddCustomHeadersRulesRemoteAuthRules,
    AuthSuccessStatus: "200",
    AuthFailedStatus: "403",
    ResponseStatus: "403",
    Timeout: int32(500),
    TimeoutAction: "pass",
    ReserveHeaders: &reserveHeadersRemoteAuthRules,
}
remoteAuthConfigs := &model.CommonRemoteAuth{
    RemoteAuthentication: "on",
    RemoteAuthRules: remoteAuthRulesRemoteAuth,
}
var listBackSourcesFlexibleOrigin = []model.BackSources{
    {
        SourcesType: "domain",
        IpOrDomain: "www.back.example.com",
    },
}
var listFlexibleOriginConfigs = []model.FlexibleOrigins{
    {
        MatchType: "file_path",
        MatchPattern: "/test",
        Priority: int32(1),
        BackSources: listBackSourcesFlexibleOrigin,
    },
}
compressConfigs := &model.Compress{
    Status: "off",
}
typeForceRedirect:= "http"
redirectCodeForceRedirect:= int32(301)
forceRedirectConfigs := &model.ForceRedirectConfig{
    Status: "on",
    Type: &typeForceRedirect,
    RedirectCode: &redirectCodeForceRedirect,
}
valueReferer:= "192.168.0.0"
includeEmptyReferer:= true
refererConfigs := &model.RefererConfig{
    Type: "black",
    Value: &valueReferer,
    IncludeEmpty: &includeEmptyReferer,
}
valueIpFilter:= "192.168.0.0"
ipFilterConfigs := &model.IpFilter{
    Type: "black",
    Value: &valueIpFilter,
}
matchTypeCacheRules:= "file_extension"
matchValueCacheRules:= ".zip"
ttlCacheRules:= int32(0)
followOriginCacheRules:= "off"
```

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```
urlParameterTypeCacheRules:= "del_params"
urlParameterValueCacheRules:= "test_param"
var listCacheRulesConfigs = []model.CacheRules{
    {
        MatchType: &matchTypeCacheRules,
        MatchValue: &matchValueCacheRules,
        Ttl: &ttlCacheRules,
        TtlUnit: "h",
        Priority: int32(10),
        FollowOrigin: &followOriginCacheRules,
        UrlParameterType: &urlParameterTypeCacheRules,
        UrlParameterValue: &urlParameterValueCacheRules,
    },
}
httpPortSources:= int32(80)
httpsPortSources:= int32(443)
var listSourcesConfigs = []model.SourcesConfig{
    {
        OriginType: "domain",
        OriginAddr: "www.example.com",
        Priority: int32(70),
        HttpPort: &httpPortSources,
        HttpsPort: &httpsPortSources,
    },
}
urlAuthConfigs := &model.UrlAuth{
    Status: "off",
}
valueHttpResponseHeader:= "test_value"
var listHttpResponseHeaderConfigs = []model.HttpResponseHeader{
    {
        Name: "test-name",
        Value: &valueHttpResponseHeader,
        Action: "set",
    },
}
valueOriginRequestHeader:= "test_value"
var listOriginRequestHeaderConfigs = []model.OriginRequestHeader{
    {
        Name: "test-name",
        Value: &valueOriginRequestHeader,
        Action: "set",
    },
}
originProtocolConfigs:= "follow"
originFollow302StatusConfigs:= "off"
ipv6AccelerateConfigs:= int32(1)
sliceEtagStatusConfigs:= "off"
originReceiveTimeoutConfigs:= int32(30)
configsbody := &model.Configs{
    OriginRequestHeader: &listOriginRequestHeaderConfigs,
    HttpResponseHeader: &listHttpResponseHeaderConfigs,
    UrlAuth: urlAuthConfigs,
    Sources: &listSourcesConfigs,
    OriginProtocol: &originProtocolConfigs,
    OriginFollow302Status: &originFollow302StatusConfigs,
    CacheRules: &listCacheRulesConfigs,
    IpFilter: ipFilterConfigs,
    Referer: refererConfigs,
    ForceRedirect: forceRedirectConfigs,
    Compress: compressConfigs,
    Ipv6Accelerate: &ipv6AccelerateConfigs,
    FlexibleOrigin: &listFlexibleOriginConfigs,
    SliceEtagStatus: &sliceEtagStatusConfigs,
    OriginReceiveTimeout: &originReceiveTimeoutConfigs,
    RemoteAuth: remoteAuthConfigs,
    Websocket: websocketConfigs,
    VideoSeek: videoSeekConfigs,
    RequestLimitRules: &listRequestLimitRulesConfigs,
```

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```
        Sni: sniConfigs,
        RequestUrlRewrite: &listRequestUrlRewriteConfigs,
        BrowserCacheRules: &listBrowserCacheRulesConfigs,
        AccessAreaFilter: &listAccessAreaFilterConfigs,
        ClientCert: clientCertConfigs,
    }
    request.Body = &model.ModifyDomainConfigRequestBody{
        Configs: configsbody,
    }
    response, err := client.UpdateDomainFullConfig(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.10 Querying Domain Name Configuration

Function

This API is used to query the domain name configuration. You can query the service type, service area, remarks, IPv6, origin protocol, origin URL rewriting, advanced origin, range request, redirect from origin, ETag verification, origin response timeout, origin request header, HTTPS, TLS version, force redirect, HSTS, HTTP/2, OCSP stapling, QUIC, cache rule, status code cache TTL, referer validation, IP ACL, User-Agent ACL, token authentication, remote authentication, IP access frequency, HTTP header, custom error page, smart compression, request rate limiting, WebSocket, video seek, origin SNI, access URL rewriting, browser cache TTL, geo-blocking settings, and client certificate settings.

- A single tenant can call this API 300 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.1/cdn/configuration/domains/{domain_name}/configs

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Table 4-127 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-128 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
show_special_configs	No	String	**Definition** Whether to display special configuration. **Constraints** N/A **Range** **auth_key**: used to query the values of the primary and secondary authentication keys. **Default Value** N/A

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-130 Response body parameters

Parameter	Type	Description
configs	**ConfigsGetBody** object	Configuration items.

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Table 4-131 ConfigsGetBody

Parameter	Type	Description
business_type	String	Service type: • **web**: website acceleration. • **download**: file download acceleration. • **video**: on-demand service acceleration. • **wholesite**: whole site acceleration.
service_area	String	Service area. • **mainland_china**: Chinese mainland. • **global**: global. • **outside_mainland_china**: outside the Chinese mainland.
remark	String	Domain name remarks.
origin_request_header	Array of **OriginRequestHeader** objects	Origin request header settings.
http_response_header	Array of **HttpResponseHeader** objects	HTTP header settings.
url_auth	**UrlAuthGetBody** object	Response body for querying token authentication settings.
https	**HttpGetBody** object	Response body for querying certificate settings.
sources	Array of **SourcesConfigResponseBody** objects	Origin server settings.
origin_protocol	String	Origin protocol. Possible values: **follow** (same as user requests), **http** (HTTP, default value), and **https** (HTTPS).
origin_follow302_status	String	Redirect from origin. Possible values: **on** (enabled) and **off** (disabled).
cache_rules	Array of **CacheRules** objects	Cache rules.

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Parameter	Type	Description
ip_filter	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A
force_redirect	**ForceRedirectConfig** object	**Definition** This parameter is used to force clients to use HTTPS or HTTP when accessing CDN PoPs. **Constraints** N/A
compress	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A
cache_url_parameter_filter	**CacheUrlParameterFilterGetBody** object	Response body for querying the settings of caching URL parameters. **NOTE** This old parameter will be deprecated recently.
ipv6_accelerate	Integer	IPv6 settings. Possible values: **1** (enabled) and **0** (disabled).
error_code_cache	Array of **ErrorCodeCache** objects	Status code cache TTL.
origin_range_status	String	Range requests. Possible values: **on** (enabled) and **off** (disabled).

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Parameter	Type	Description
user_agent_filter	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A
origin_request_url_rewrite	Array of **OriginRequestUrlRewrite** objects	Origin request URL rewriting.
flexible_origin	Array of **flexibleOrigins** objects	Advanced origins.
slice_etag_status	String	Whether ETag is verified during origin pull. Possible values: **on** (yes) and **off** (no).
origin_receive_timeout	Integer	Origin response timeout, in seconds.
remote_auth	**commonRemoteAuth** object	**Definition** Remote authentication. CDN can forward user requests to the authentication server you specify and determine whether to return requested content to users based on the server response. **Constraints** N/A
websocket	**webSocketSeek** object	**Definition** Whether to allow clients to access CDN PoPs using WebSocket. **NOTE** WebSocket works only for resources whose TTL is set to 0, TTL source is set to CDN, and forcible cache is enabled. **Constraints** • Only domain names for whole site acceleration support this configuration item. • WebSocket and HTTP/2 are incompatible and cannot be both enabled.

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Parameter	Type	Description
video_seek	**videoSeek** object	**Definition** Video seek settings. Users can seek to any position in a video without affecting the playback effect. **Constraints** • You have configured a cache rule for FLV and MP4 files and ignored all URL parameters in user requests. • Time-based FLV seek is valid only when video seek is enabled.
request_limit_rules	Array of **RequestLimitRules** objects	**Definition** Request rate limiting settings. **Constraints** N/A
ip_frequency_limit	**IpFrequencyLimitQuery** object	IP access frequency.
hsts	**HstsQuery** object	HSTS settings. HSTS forces clients (such as browsers) to use HTTPS to access your server, improving access security.
quic	**Quic** object	**Definition** QUIC. Using QUIC to access CDN PoPs improves transmission security, reduces transmission and connection latency, and prevents network congestion. **Constraints** N/A
error_code_redirect_rules	Array of **ErrorCodeRedirectRules** objects	Custom error page.
sni	**Sni** object	**Definition** Origin SNI. If your origin server IP address is bound to multiple domain names and CDN visits the origin server using HTTPS, specify the domain name to be visited by CDN during handshake. **Constraints** N/A

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Parameter	Type	Description
request_url_rewrite	Array of **RequestUrlRewrite** objects	Access URL rewriting.
browser_cache_rules	Array of **BrowserCacheRules** objects	Browser cache TTL.
access_area_filter	Array of **AccessAreaFilter** objects	**Definition** Geo-blocking, which prevents users in certain geographical locations from accessing your content. **NOTE** IP addresses belong to carriers and change irregularly. Although Huawei Cloud periodically updates the IP address library, the update may be delayed. As a result, some access control functions may occasionally block or allow requests, or client requests may not be scheduled to the optimal PoP. **Constraints** N/A
client_cert	**ClientCert** object	**Definition** Client certificate, which enforces mutual certificate authentication between clients and CDN PoPs, securing website communication. **Constraints** N/A

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Table 4-132 OriginRequestHeader

Parameter	Type	Description
name	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** ● Enter 1 to 100 characters. ● Use only letters, digits, and hyphens (-). ● Start with a letter. **Default Value** N/A
value	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** ● Enter 1 to 1,000 characters. ● Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> ● This parameter is optional when the header is to be deleted. ● Chinese characters are not allowed. ● Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A

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Parameter	Type	Description
action	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

Table 4-133 HttpResponseHeader

Parameter	Type	Description
name	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

Table 4-134 UrlAuthGetBody

Parameter	Type	Description
status	String	Whether token authentication is enabled. Possible values: **on** (enabled) and **off** (disabled).

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Parameter	Type	Description
type	String	Signing method. **type_a**: method A. **type_b**: method B. **type_c1**: method C1. **type_c2**: method C2.
expire_time	Integer	Expiration time, in seconds.
sign_method	String	Encryption algorithm.
match_type	String	Authentication scope.
inherit_config	**InheritConfigQuery** object	Authentication inheritance. Authentication parameters are added to TS and MP4 files under M3U8/MPD index files, so that the files can be played after authentication succeeds.
key	String	Signing key.
backup_key	String	Secondary key.
sign_arg	String	Authentication parameters.
time_format	String	Time format. **dec**: decimal. **hex**: hexadecimal.
time_arg	String	Time parameter.

Table 4-135 InheritConfigQuery

Parameter	Type	Description
status	String	Whether authentication inheritance is enabled. The options are **on** (enabled) and **off** (disabled).
inherit_type	String	Authentication inheritance settings. The value can be **m3u8**, **mpd**, or **m3u8,mpd**.
inherit_time_type	String	Time type of the files that inherits authentication settings. **sys_time**: current system time. **parent_url_time**: time when a user accesses the M3U8/MPD file.

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Table 4-136 HttpGetBody

Parameter	Type	Description
https_status	String	Whether HTTPS is enabled. Possible values: **on** (enabled) and **off** (disabled).
certificate_type	String	Certificate type. **server**: international certificate. **server_sm**: Chinese (SM2) certificate.
certificate_source	Integer	Certificate source. **1**: Huawei-managed certificate; **0**: your own certificate. **2**: SCM certificate.
scm_certificate_id	String	SCM certificate ID.
certificate_name	String	Certificate name.
certificate_value	String	Content of the certificate used by the HTTPS protocol. The value must be PEM encoded.
expire_time	Long	Certificate expiration time. **NOTE** The value is in UTC format.
enc_certificate_value	String	Encryption Chinese (SM2) certificate. The value must be PEM encoded.
certificates	Array of **CertificatesGetBody** objects	Response body for querying dual-certificate settings.
http2_status	String	Whether HTTP/2 is used. Possible values: **on** (yes) and **off** (no).
tls_version	String	TLS.
ocsp_stapling_status	String	Whether OCSP stapling is enabled. Possible values: **on** (yes) and **off** (no).

Table 4-137 CertificatesGetBody

Parameter	Type	Description
certificate_source	Integer	Certificate source. **0**: your own certificate. **2**: SCM certificate.
scm_certificate_id	String	SCM certificate ID.
certificate_type	String	Certificate type. **server**: international certificate; **server_sm**: Chinese (SM2) certificate.

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Parameter	Type	Description
certificate_name	String	Certificate name.
certificate_value	String	Content of the certificate used by the HTTPS protocol. The value must be PEM encoded.
enc_certificate_value	String	Encryption Chinese (SM2) certificate. The value must be PEM encoded.
expire_time	Long	Certificate expiration time. **NOTE** The value is in UTC format.

Table 4-138 SourcesConfigResponseBody

Parameter	Type	Description
origin_type	String	Origin server type. • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket. To use this type of origin servers, submit a service ticket.
origin_addr	String	IP address or domain name of the origin server.
priority	Integer	Origin server priority. Possible values: **70** (primary) and **30** (standby).
weight	Integer	Weight. The value ranges from 1 to 100.
obs_web_hosting_status	String	Whether static website hosting is enabled for the OBS bucket. This parameter is mandatory when the origin server type is **obs_bucket**. Possible values: **off** (disabled) and **on** (enabled).
http_port	Integer	HTTP port. Default value: **80**. The port number ranges from 1 to 65535.
https_port	Integer	HTTPS port. Default value: **443**. The port number ranges from 1 to 65535.
host_name	String	Host header. The default value is the acceleration domain name.

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Parameter	Type	Description
obs_bucket_type	String	OBS bucket type. • **private**: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • **public**: public bucket (Any user can read objects in the bucket.)
bucket_access_key	String	Access key of the third-party bucket. **NOTE** This parameter is mandatory when the origin server is a third-party bucket.
bucket_secret_key	String	Secret key of the third-party bucket. **NOTE** This parameter is mandatory when the origin server is a third-party bucket.
bucket_region	String	Region of the third-party bucket. **NOTE** This parameter is mandatory when the origin server is a third-party bucket.
bucket_name	String	Name of the third-party bucket. **NOTE** This parameter is mandatory when the origin server is a third-party bucket.

Table 4-139 CacheRules

Parameter	Type	Description
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
ttl	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Type	Description
follow_origin	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Type	Description
url_parameter_type	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-140 IpFilter

Parameter	Type	Description
type	String	**Definition** IP ACL type. **Constraints** N/A **Range** • **off**: The IP ACL is disabled. • **black**: IP address blacklist. • **white**: IP address whitelist. **Default Value** N/A
value	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

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Table 4-141 RefererConfig

Parameter	Type	Description
type	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A
value	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
include_empty	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

Table 4-142 ForceRedirectConfig

Parameter	Type	Description
status	String	**Definition** Force redirect status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
type	String	**Definition** Protocol to which requests are forcibly redirected. **Constraints** If force redirect to HTTPS is enabled, an HTTPS certificate must be configured. Otherwise, the access will fail. **Range** ● **http**: force redirect to HTTP. ● **https**: force redirect to HTTPS. **Default Value** N/A
redirect_code	Integer	**Definition** Redirect status code. **Constraints** N/A **Range** ● 301 ● 302 ● 307 **Default Value** N/A

Table 4-143 Compress

Parameter	Type	Description
status	String	**Definition** Smart compression status. **Constraints** N/A **Range** ● **on**: enabled. ● **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
type	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). ● **gzip**: gzip compression. ● **br**: Brotli compression. **Default Value** N/A
file_type	String	**Definition** Types of files to compress. **Constraints** N/A **Range** ● Enter up to 2,000 characters. ● Enter up to 50 characters for each type. ● Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.
compress_min_length	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A

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Parameter	Type	Description
compress_max_length	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A

Table 4-144 CacheUrlParameterFilterGetBody

Parameter	Type	Description
type	String	Operation type of caching URL parameters. ● **full_url**: Cache all URL parameters. ● **ignore_url_params**: Ignore all URL parameters. ● **del_params**: Ignore specific URL parameters. ● **reserve_params**: Retain specific URL parameters. **NOTE** The following parameters of this API are adjusted: ● Replaced **del_args** with **del_params**. ● Replaced **reserve_args** with **reserve_params**.
value	String	Parameter value.

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Table 4-145 ErrorCodeCache

Parameter	Type	Description
code	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, 407, 414, 416, and 451. • 5*xx*: 500, 501, 502, 503, 504, 509, and 514. **Default Value** N/A
ttl	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

Table 4-146 UserAgentFilter

Parameter	Type	Description
type	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,/'#!@$^&+=~?"[]{}:% **Default Value** N/A
include_empty	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.

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Parameter	Type	Description
ua_list	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

Table 4-147 OriginRequestUrlRewrite

Parameter	Type	Description
priority	Integer	**Definition** Priority of a URL rewrite rule. **NOTE** A larger value indicates a higher priority. CDN executes the URL rewrite rule with a higher priority. **Constraints** • The priority of a rule must be unique. • The priority cannot be empty. **Range** 1 to 100. **Default Value** N/A
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_path**: URI path. • **wildcard**: wildcard. • **full_path**: full path. **Default Value** N/A

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Parameter	Type	Description
source_url	String	**Definition** URI to rewrite. **Constraints** If the match mode is set to all files, this parameter cannot be configured. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example, **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A
target_url	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

Table 4-148 flexibleOrigins

Parameter	Type	Description
match_type	String	**Definition** URI match mode. **Constraints** N/A **Range** • **file_extension**: file name extension. • **file_path**: directory. **Default Value** N/A
match_pattern	String	**Definition** URI match rule. **Constraints** When **match_type** is set to **file_extension**: • All file types are supported. • Start a file type with a period (.). Separate file types by semicolons (;). • Enter up to 20 file types. When **match_type** is set to **file_path**: • Start a directory with a slash (/). • Separate directories by semicolons (;). – Enter up to 20 directories. **NOTE** File types are case-sensitive. **Range** 1 to 512 characters. **Default Value** N/A

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Parameter	Type	Description
priority	Integer	**Definition** Priority. **NOTE** A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
back_sources	Array of **backSources** objects	**Definition** Origin server accessed by CDN PoPs for origin pull when a client request matches this rule. **Constraints** Only one origin server in each rule. **Range** N/A **Default Value** N/A

Table 4-149 backSources

Parameter	Type	Description
sources_type	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. **Default Value** N/A

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Parameter	Type	Description
ip_or_domain	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	String	**Definition** OBS bucket type. **Constraints** N/A **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public
http_port	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80
https_port	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443

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Table 4-150 commonRemoteAuth

Parameter	Type	Description
remote_authentication	String	**Definition** Whether to enable remote authentication. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
remote_auth_rules	**RemoteAuthRule** object	**Definition** Remote authentication settings. **Constraints** N/A

Table 4-151 RemoteAuthRule

Parameter	Type	Description
auth_server	String	**Definition** Address of a reachable authentication server. **Constraints** • The address must contain http:// or https://. • It cannot be a local address such as localhost or 127.0.0.1. • It cannot be an acceleration domain name added on CDN. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
request_method	String	**Definition** Request method supported by the authentication server. **Constraints** N/A **Range** • GET • POST • HEAD **Default Value** N/A
file_type_setting	String	**Definition** Range of files to authenticate. **Constraints** N/A **Range** • **all**: all files. • **specific_file**: files of the specified types. Example: **jpg|MP4**. **NOTE** File types are case-insensitive. For example, **jpg** and **JPG** indicate the same file type. File types are separated by vertical bars (|). **Default Value** N/A
specified_file_type	String	**Definition** Types of files to authenticate. **Constraints** • This parameter is mandatory when **file_type_setting** is set to **specific_file**. In other cases, it is left blank. • Separate file types by vertical bars (|). Example: **jpg|mp4**. • This parameter is verified only when it is mandatory. **Range** • Enter 1 to 512 characters. • Use only letters and digits. **Default Value** N/A

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Parameter	Type	Description
reserve_args_setting	String	**Definition** Whether to retain or ignore parameters for authentication. **Constraints** N/A **Range** • **reserve_all_args**: Retain all URL parameters. • **reserve_specific_args**: Retain specific URL parameters. • **ignore_all_args**: Ignore all URL parameters. **Default Value** N/A
reserve_args	String	**Definition** Parameters. **Constraints** • This parameter is mandatory when **reserve_args_setting** is set to **reserve_specific_args**. In other cases, this parameter is left blank. • Separate parameters by vertical bars (|). Example: **key1|key2**. **Range** N/A **Default Value** N/A
add_custom_args_rules	Array of **customArgs** objects	**Definition** Parameters to be added when CDN PoPs forward user requests to the remote authentication server. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Type	Description
reserve_headers_setting	String	**Definition** Whether to retain or ignore request headers when CDN PoPs forward user requests to the remote authentication server. **Constraints** N/A **Range** • **reserve_all_headers**: Retain all request headers. • **reserve_specific_headers**: Retain specific request headers. • **ignore_all_headers**: Ignore all request headers. **Default Value** N/A
add_custom_headers_rules	Array of **customArgs** objects	**Definition** Request headers to authenticate. **Constraints** N/A **Range** N/A **Default Value** N/A
auth_success_status	String	**Definition** Status code returned by the remote authentication server to CDN PoPs when authentication is successful. **Constraints** N/A **Range** • 2*xx* • 3*xx* **Default Value** N/A

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Parameter	Type	Description
auth_failed_status	String	**Definition** Status code returned by the remote authentication server to CDN PoPs when authentication fails. **Constraints** N/A **Range** ● 4*xx* ● 5*xx* **Default Value** N/A
response_status	String	**Definition** Status code returned by CDN PoPs to users when authentication fails. **Constraints** N/A **Range** ● 2*xx* ● 3*xx* ● 4*xx* ● 5*xx* **Default Value** N/A
timeout	Integer	**Definition** Authentication timeout interval, that is, the interval from the time when a CDN PoP forwards an authentication request to the time when the CDN PoP receives the result returned by the remote authentication server. **Constraints** N/A **Range** 0 or 50 to 3,000, in milliseconds. **Default Value** N/A

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Parameter	Type	Description
timeout_action	String	**Definition** Method used by CDN PoPs to process a user request after authentication times out. **Constraints** N/A **Range** • **pass**: The user request will be accepted and the requested resource will be returned. • **forbid**: The user request will be rejected and the configured custom response status code will be returned. **Default Value** N/A
reserve_headers	String	**Definition** Request headers to retain. **Constraints** • This parameter is mandatory when **reserve_headers_setting** is set to **reserve_specific_headers**. In other cases, this parameter is left blank. • Separate request headers by vertical bars (|). Example: **key1|key2**. **Range** N/A **Default Value** N/A

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Table 4-152 customArgs

Parameter	Type	Description
type	String	**Definition** Parameter type. **Constraints** N/A **Range** • **custom_var**: custom. • **nginx_preset_var**: preset variable. **Default Value** N/A
key	String	**Definition** Parameter name. **Constraints** N/A **Range** • Enter 1 to 256 characters. • Use only letters, digits, and the following special characters: ._-*#%|+^@?= **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** Parameter value. **Constraints** N/A **Range** • When **type** is set to **custom_var**, enter 1 to 256 characters and use only letters, digits, and the following special characters: ._-*#%|+^@?= • When **type** is set to **nginx_preset_var**, the value can only be set to **$http_host**, **$http_user_agent**, **$http_referer**, **$http_x_forwarded_for**, **$http_content_type**, **$remote_addr**, **$scheme**, **$server_protocol**, **$request_uri**, **$uri**, **$args**, and **$request_method**. **Default Value** N/A

Table 4-153 webSocketSeek

Parameter	Type	Description
status	String	**Definition** Whether to enable the WebSocket protocol. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
timeout	Integer	**Definition** Duration for keeping a connection open. **Constraints** N/A **Range** 1 to 300, in seconds. This parameter is mandatory when **status** is set to **on**. **Default Value** N/A

Table 4-154 videoSeek

Parameter	Type	Description
enable_video_seek	Boolean	**Definition** Video seek status. **Constraints** When this parameter is set to **false**, the API for querying domain name configuration does not return the video seek settings. **Range** • **true**: enabled. • **false**: disabled. **Default Value** N/A
enable_flv_by_time_seek	Boolean	**Definition** Time-based FLV seek status. **Constraints** N/A **Range** • **true**: enabled. • **false**: disabled. **Default Value** N/A

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Parameter	Type	Description
start_parameter	String	**Definition** Start parameter of video playback in URLs requested by users. **Constraints** N/A **Range** • Enter 1 to 64 characters. • Use only letters, digits, and underscores (_). **Default Value** N/A
end_parameter	String	**Definition** End parameter of video playback in URLs requested by users. **Constraints** N/A **Range** • Enter 1 to 64 characters. • Use only letters, digits, and underscores (_). **Default Value** N/A

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Table 4-155 RequestLimitRules

Parameter	Type	Description
status	String	**Definition** Whether to enable request rate limiting. **NOTE** • This parameter is used in earlier APIs and will be deprecated. • The value can only be **on**. **off** is invalid. **Constraints** If **request_limit_rules** is left empty, request rate limiting is disabled. **Range** on **Default Value** N/A
priority	Integer	**Definition** Priority. **NOTE** A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **catalog**: directory. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Match type value. **Constraints** • When **match_type** is set to **all**, leave this parameter empty. • When **match_type** is set to **catalog**, the value is a directory address starting with a slash (/), for example, **/test**. • This parameter is mandatory when **match_type** is set to **catalog**. **Range** N/A **Default Value** N/A
type	String	**Definition** Rate limit mode. **Constraints** Currently, only rate limit by traffic is supported. This parameter can only be set to **size**. **Range** N/A **Default Value** N/A
limit_rate_after	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A

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Parameter	Type	Description
limit_rate_value	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A
limit_time	String	**Definition** Periods when the rate is limited. **Constraints** • Periods are in the 24-hour clock. Period format: HHMM-HHMM (in UTC+08:00). • Separate periods by commas (,). Example: **0100-0200,2200-2300**. • Enter up to 10 periods. **Range** N/A **Default Value** 0000-2400

Table 4-156 IpFrequencyLimitQuery

Parameter	Type	Description
status	String	Status. The options are **on** (enabled) and **off** (disabled).
qps	Integer	Access threshold, in times/second.

Table 4-157 HstsQuery

Parameter	Type	Description
status	String	Status. The options are **on** (enabled) and **off** (disabled).

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Parameter	Type	Description
max_age	Integer	Expiration time, that is, the TTL of the response header **Strict-Transport-Security** on the client. Unit: second.
include_subdomains	String	Whether subdomain names are included. The options are **on** (included) and **off** (not included).

Table 4-158 Quic

Parameter	Type	Description
status	String	**Definition** QUIC status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

Table 4-159 ErrorCodeRedirectRules

Parameter	Type	Description
error_code	Integer	**Definition** Redirection error code. **Constraints** N/A **Range** • 4*xx*: 400, 403, 404, 405, 414, 416, and 451. • 5*xx*: 500, 501, 502, 503, and 504. **Default Value** N/A

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Parameter	Type	Description
target_code	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 **Default Value** N/A
target_link	String	**Definition** Destination URL. **Constraints** Start with http:// or https://. **Range** N/A **Default Value** N/A

Table 4-160 Sni

Parameter	Type	Description
status	String	**Definition** Whether to enable origin SNI. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
server_name	String	**Definition** SNI domain name used for HTTPS handshake during CDN PoP origin pull. **Constraints** • This parameter is mandatory when origin SNI is enabled. **Range** • Use only letters, digits, hyphens (-), and periods (.). **Default Value**

Table 4-161 RequestUrlRewrite

Parameter	Type	Description
condition	**UrlRewriteCondition** object	**Definition** Match condition. **Constraints** N/A **Range** N/A **Default Value** N/A
redirect_status_code	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A

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Parameter	Type	Description
redirect_url	String	**Definition** Redirection URL. **Constraints** ● A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. ● When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A
redirect_host	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** ● Enter 1 to 255 characters. ● Start with http:// or https://. **Default Value** Acceleration domain name.

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Parameter	Type	Description
execution_mode	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

Table 4-162 UrlRewriteCondition

Parameter	Type	Description
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **catalog**: The rule is executed for files in the specified directory. • **full_path**: The rule is executed for the file of the specified path. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Match content. **Constraints** • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories. A directory starts with a slash (/). Directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A rule can contain only one full path. Example: **/test/index.html** or **/test/*.jpg**. **Range** N/A **Default Value** N/A
priority	Integer	**Definition** Priority of the access URL rewrite rule. **NOTE** A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Table 4-163 BrowserCacheRules

Parameter	Type	Description
condition	**BrowserCacheRulesCondition** object	**Definition** Match condition. **Constraints** N/A **Range** N/A **Default Value** N/A
cache_type	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

Table 4-164 BrowserCacheRulesCondition

Parameter	Type	Description
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Cache content based on the cache rule. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 20 file types. A file type starts with a period (.). File types are separated by commas (,). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories. A directory starts with a slash (/). Directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*), but cannot end with a wildcard (*). A wildcard (*) can only follow the last slash (/). A rule can contain only one full path. Example: **/test/index.html** or **/test/*.jpg**. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
priority	Integer	**Definition** Priority of the browser cache rule. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** N/A **Default Value** 1 to 100.

Table 4-165 AccessAreaFilter

Parameter	Type	Description
type	String	**Definition** Rule type. **Constraints** N/A **Range** • **black**: blacklist. Users in regions specified in the blacklist cannot access resources and status code 403 is returned. • **white**: whitelist. Only users in regions specified in the whitelist can access resources. Status code 403 is returned for other users. **Default Value** N/A

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Parameter	Type	Description
content_type	String	**Definition** Content type. **Constraints** N/A **Range** • **all**: The rule takes effect for all files. • **file_directory**: The rule takes effect for resources in the specified directory. • **file_path**: The rule takes effect for resources corresponding to the path. **Default Value** N/A
content_value	String	**Definition** Rule. **Constraints** • When **content_type** is set to **all**, this parameter is empty or not passed. • When **content_type** is set to **file_directory**, the value is a list of up to 100 directories. A directory starts with a slash (/). Multiple directories are separated by commas (,). Example: **/test/folder01,/test/folder02**. • When **content_type** is set to **file_path**, the value is a list of up to 100 file paths. A path starts with a slash (/) or wildcard (*). Up to two wildcards (*) are allowed and they cannot be consecutive. Multiple paths are separated by commas (,). Example: **/test/a.txt,/test/b.txt**. • Each whitelist or blacklist rule must be unique. • You can configure only one rule for all files. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
area	String	**Definition** Regions to which the rule applies. **Constraints** • Separate regions by commas (,). • Example: **CN_IN,AF,IE,EG,AU** (Chinese mainland, Afghanistan, Ireland, Egypt, and Australia). For details about the location codes, see section "Appendix" > "Geographical Location Codes". **Range** N/A **Default Value** N/A
exception_ip	String	**Definition** Exception IP addresses excluded from this rule. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-166 ClientCert

Parameter	Type	Description
status	String	**Definition** Client certificate status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
trusted_cert	String	**Definition** Content of the client CA certificate. **Constraints** Only the PEM format is supported. **Range** N/A **Default Value** N/A
hosts	String	**Definition** Domain names specified in the client CA certificate. **Constraints** • Leave this parameter blank to allow all requests from clients that hold the CA certificate. • Add up to 100 domain names. • Separate domain names by commas (,) or vertical bars (|). **Range** N/A **Default Value** N/A

Example Requests

GET https://cdn.myhuaweicloud.com/v1.1/cdn/configuration/domains/www.example.com/configs

Example Responses

Status code: 200

Success response.


```
{
  "configs" : {
    "origin_request_header" : [ ],
    "http_response_header" : [ ],
    "https" : {
      "https_status" : "off"
    },
    "url_auth" : {
      "status" : "off"
    },
    "compress" : {
      "status" : "off"
    },
    "force_redirect" : {
      "status" : "on",
```

```
    "type" : "http"
  },
  "origin_protocol" : "follow",
  "referer" : {
    "type" : "string",
    "value" : "string",
    "include_empty" : true
  },
  "ip_filter" : {
    "type" : "string",
    "value" : "string"
  },
  "origin_follow302_status" : "off",
  "cache_rules" : [ {
    "match_type" : "string",
    "match_value" : "string",
    "ttl" : 0,
    "ttl_unit" : "string",
    "priority" : 0,
    "follow_origin" : "string",
    "url_parameter_type" : "string",
    "url_parameter_value" : "string"
  } ],
  "sources" : [ {
    "origin_addr" : "www.example.com",
    "origin_type" : "domain",
    "priority" : 70,
    "http_port" : 80,
    "https_port" : 443
  } ],
  "cache_url_parameter_filter" : {
    "type" : "del_params",
    "value" : "key1;key2"
  },
  "flexible_origin" : [ {
    "priority" : 1,
    "match_type" : "/test",
    "match_pattern" : "file_path",
    "back_sources" : [ {
      "sources_type" : "domain",
      "ip_or_domain" : "www.example.com",
      "obs_bucket_type" : "public"
    } ]
  } ],
  "slice_etag_status" : "off",
  "ipv6_accelerate" : 1,
  "origin_receive_timeout" : 30,
  "remote_auth" : {
    "remote_authentication" : "on",
    "remote_auth_rules" : {
      "auth_server" : "https://1.1.1.1",
      "request_method" : "GET",
      "file_type_setting" : "all",
      "reserve_args_setting" : "reserve_all_args",
      "reserve_args" : "string",
      "specified_file_type" : "string",
      "reserve_headers_setting" : "reserve_specific_headers",
      "auth_success_status" : "200",
      "auth_failed_status" : "403",
      "response_status" : "403",
      "timeout" : 500,
      "timeout_action" : "pass",
      "reserve_headers" : "sf",
      "add_custom_args_rules" : [ {
        "type" : "nginx_preset_var",
        "key" : "http_host",
        "value" : "$http_host"
      } ],
      "add_custom_headers_rules" : [ {
```


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```
        "type" : "nginx_preset_var",
        "key" : "http_host",
        "value" : "$http_host"
      } ]
    }
  },
  "websocket" : {
    "status" : "off",
    "timeout" : 60
  },
  "video_seek" : {
    "enable_video_seek" : true,
    "enable_flv_by_time_seek" : true,
    "start_parameter" : "start",
    "end_parameter" : "end"
  },
  "request_limit_rules" : [ {
    "status" : "on",
    "type" : "size",
    "limit_rate_after" : 1024,
    "limit_rate_value" : 50
  } ],
  "sni" : {
    "status" : "on",
    "server_name" : "test.example.com"
  },
  "request_url_rewrite" : [ {
    "condition" : {
      "match_type" : "full_path",
      "match_value" : "/test/*.jpg",
      "priority" : 10
    },
    "redirect_status_code" : 301,
    "redirect_url" : "/test/index.html",
    "execution_mode" : "redirect"
  } ],
  "browser_cache_rules" : [ {
    "condition" : {
      "match_type" : "full_path",
      "match_value" : "/test/*.jpg",
      "priority" : 10
    },
    "cache_type" : "ttl",
    "ttl" : 20,
    "ttl_unit" : "h"
  } ],
  "access_area_filter" : [ {
    "type" : "black",
    "content_type" : "all",
    "area" : "CN_IN,AU",
    "exception_ip" : "0.0.0.0"
  } ],
  "client_cert" : {
    "status" : "on",
    "trusted_cert" : "certificate_example",
    "hosts" : "www.example.com"
  }
 }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowDomainFullConfigSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowDomainFullConfigRequest request = new ShowDomainFullConfigRequest();
        request.withDomainName("{domain_name}");
        try {
            ShowDomainFullConfigResponse response = client.showDomainFullConfig(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)
```

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```
    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowDomainFullConfigRequest()
        request.domain_name = "{domain_name}"
        response = client.show_domain_full_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDomainFullConfigRequest{}
    request.DomainName = "{domain_name}"
    response, err := client.ShowDomainFullConfig(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.

Error Codes

See **Error Codes**.

4.2.11 Creating a Rule in the Rules Engine

Function

The rules engine allows you to configure rules in graphical mode, which is more flexible and fine-grained. By restricting trigger conditions, you can control the resource range for the configuration to take effect, meeting requirements in various scenarios.

- Submit a service ticket to enable this function before using the API.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/domains/{domain_name}/rules

Table 4-167 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-168 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-169 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Rule name. **Constraints** N/A **Range** 1 to 50 characters. **Default Value** N/A
status	Yes	String	**Definition** Whether the rule is enabled. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Rule priority. A larger value indicates a higher priority. **Constraints** The priority must be unique. **Range** 1 to 100. **Default Value** N/A
conditions	Yes	**Conditions** object	**Definition** Conditions for triggering the rule. **Constraints** N/A
actions	Yes	Array of **Actions** objects	**Definition** Action to be executed when the rule conditions are met. **Constraints** N/A

Table 4-170 Conditions

Parameter	Mandatory	Type	Description
match	Yes	**Match** object	**Definition** Rule conditions. **Constraints** N/A

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Table 4-171 Match

Parameter	Mandatory	Type	Description
logic	Yes	String	**Definition** Logical operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	Yes	Array of **Criteria** objects	**Definition** Match condition list. **Constraints** N/A

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Table 4-172 Criteria

Parameter	Mandatory	Type	Description
match_target_type	No	String	**Definition** Match target type. **Constraints** N/A **Range** • **schema**: protocol used by a client request. • **method**: request method used by a client request. • **path**: URL requested by a client. • **arg**: query parameters in a request URL. • **extension**: file name extension of content requested by a client. • **filename**: file name of content requested by a client. • **header**: HTTP request headers. • **clientip**: IP address of a client. • **clientip_version**: IP version of a client request. • **ua**: User-Agent of a client request. • **ngx_variable**: Nginx variables. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_target_name	No	String	**Definition** Match target name. **Constraints** N/A **Range** • When the match target type is set to **schema**, **method**, **path**, **extension**, **filename**, or **ua**, the parameter is left blank. • When the match target type is set to **arg**, the value is the name of a query parameter. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **header**, the value is the name of a request header. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **clientip**, the value is an IP address source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **clientip_version**, the value is an IP version source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **ngx_variable**, the value is an Nginx variable name. It can be **$protocol**, **$arg_**, **$http_**, **$scheme**, **$uri**, **$ssl_protocol**,

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Parameter	Mandatory	Type	Description
			$ssl_server_name, **$remote_addr**, **$http2**, **$request_method**, or **$sent_http_**. **Default Value** N/A
match_type	No	String	**Definition** Match algorithm. **Constraints** N/A **Range** **contains**: Any condition specified in **match_pattern** is matched. **Default Value** N/A
match_pattern	No	Array of strings	**Definition** Match content. **Constraints** N/A **Range** • When the match target type is set to **schema**, the value can be **HTTP** or **HTTPS**. • When the match target type is set to **method**, the value can be **GET**, **PUT**, **POST**, **DELETE**, **HEAD**, **OPTIONS**, **PATCH**, **TRACE** or **CONNECT**. • When the match target type is set to **clientip_version**, the value can be **IPv4** or **IPv6**. • When the match target type is set to **path** or **ua**, the value supports wildcard characters (*). **Default Value** N/A

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Parameter	Mandatory	Type	Description
negate	No	Boolean	**Definition** Whether to perform negation. This parameter is used together with **match_type**. For example, if **negate** is set to **true** and **match_type** is set to **contains**, the actual service logic is converted to **not_contains**. **Constraints** N/A **Range** • **true**: negated. • **false**: not negated. **Default Value** false
case_sensitive	No	Boolean	**Definition** Case insensitive or not. **Constraints** N/A **Range** • **true**: case sensitive. • **false**: case-insensitive. **Default Value** false
logic	No	String	**Definition** Nested condition logic operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	No	Array of **Criteria** objects	**Definition** Nested condition list. **Constraints** N/A

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Table 4-173 Actions

Parameter	Mandatory	Type	Description
flexible_origin	No	Array of **flexibleOriginsEngine** objects	**Definition** Advanced origin rules. CDN can pull content from different origin servers by resource type or path. **Constraints** Up to 20 rules.
origin_request_header	No	Array of **OriginRequestHeader** objects	**Definition** Rewrite the HTTP headers in request URLs during CDN PoP origin pull. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
http_response_header	No	Array of **HttpResponseHeader** objects	**Definition** Headers returned by PoPs to clients. CDN includes them in responses to user requests for resources within that domain name. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
access_control	No	**AccessControl** object	**Definition** Access control. **Constraints** N/A

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Parameter	Mandatory	Type	Description
request_limit_rules	No	**RequestLimitRulesEngine** object	**Definition** Request rate limiting. This limits the user request rate within a specific range to reduce costs and the risk of burst bandwidth. **Constraints** N/A
origin_request_url_rewrite	No	**OriginRequestUrlRewriteEngine** object	**Definition** Origin request URL rewrite. **Constraints** Up to 20 rules.
cache_rule	No	**CacheRulesEngine** object	**Definition** Parameters used to control the cache TTL of origin server resources on CDN PoPs. **Constraints** N/A
request_url_rewrite	No	**RequestUrlRewriteEngine** object	**Definition** Access URL rewrite rules, which are used to redirect user requests to the URLs of cached content. **Constraints** N/A
browser_cache_rule	No	**BrowserCacheRulesEngine** object	**Definition** Browser cache TTL, during which users can obtain content directly from their browser cache (if available). **Constraints** N/A
error_code_cache	No	**ErrorCodeCacheEngine** object	**Definition** You can cache error codes returned by the origin server on CDN PoPs. When users request the same resources, CDN directly returns the error codes to the users. **Constraints** N/A

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Table 4-174 flexibleOriginsEngine

Parameter	Mandatory	Type	Description
sources_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: origin server IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket domain name. **Default Value** N/A
ip_or_domain	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	No	String	**Definition** OBS bucket type. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public

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Parameter	Mandatory	Type	Description
bucket_access_key	No	String	**Definition** Access key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_secret_key	No	String	**Definition** Secret key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_region	No	String	**Definition** Region of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
bucket_name	No	String	**Definition** Name of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
host_name	No	String	**Definition** Host header. **Constraints** N/A **Range** N/A **Default Value** Acceleration domain name.
origin_protocol	No	String	**Definition** Request protocol for CDN origin pull. **Constraints** N/A **Range** • **follow**: same as user. • **http**: HTTP. • **https**: HTTPS. **Default Value** http
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80

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Parameter	Mandatory	Type	Description
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443
priority	Yes	Integer	**Definition** Priority. A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
weight	Yes	Integer	**Definition** Weight. A larger value indicates that content is pulled from this origin server more frequently. If there are multiple origin servers with the same priority, the weight determines the proportion of content pulled from each origin server. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A

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Table 4-175 OriginRequestHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). • Start with a letter. **Default Value** N/A
value	No	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. • Chinese characters are not allowed. • Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A

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Parameter	Mandatory	Type	Description
action	Yes	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

Table 4-176 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-177 AccessControl

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Access control type. **Constraints** N/A **Range** • **block**: Block. • **trust**: Allow. **Default Value** N/A

Table 4-178 RequestLimitRulesEngine

Parameter	Mandatory	Type	Description
limit_rate_after	Yes	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A
limit_rate_value	Yes	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A

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Table 4-179 OriginRequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
rewrite_type	Yes	String	**Definition** Rewrite method. **Constraints** N/A **Range** • **simple**: exact. • **wildcard**: capturing. • **regex**: regular expression. (for whitelisted customers only. Submit a service ticket to enable this function.) **Default Value** N/A
source_url	No	String	**Definition** URI to rewrite. **Constraints** This parameter is mandatory when **rewrite_type** is set to **wildcard** or **regex**. When **rewrite_type** is set to **regex**, this parameter must start with ^/. Example: **^/test**. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example: **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A

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Parameter	Mandatory	Type	Description
target_url	Yes	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

Table 4-180 CacheRulesEngine

Parameter	Mandatory	Type	Description
ttl	Yes	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** N/A
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	Yes	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Table 4-181 RequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
redirect_status_code	No	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A
redirect_url	Yes	String	**Definition** Redirection URL. **Constraints** • A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. • When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
redirect_host	Yes	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** • Enter 1 to 255 characters. • Start with http:// or https://. **Default Value** Acceleration domain name.
execution_mode	Yes	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

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Table 4-182 BrowserCacheRulesEngine

Parameter	Mandatory	Type	Description
cache_type	Yes	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	No	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A
ttl_unit	No	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Table 4-183 ErrorCodeCacheEngine

Parameter	Mandatory	Type	Description
code	Yes	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, and 414. • 5*xx*: 501, 502, 503, and 504. **Default Value** N/A
ttl	Yes	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/www.example/rules

{
  "name" : "example",
  "status" : "on",
  "priority" : 1,
  "conditions" : {
    "match" : {
      "logic" : "and",
      "criteria" : [ {
        "match_target_type" : "scheme",
        "match_type" : "contains",
        "match_pattern" : [ "HTTP" ],
        "negate" : false,
```

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```
      "case_sensitive" : false
    } ]
   }
  },
  "actions" : [ {
   "access_control" : {
    "type" : "block"
   }
  } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateRuleNewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateRuleNewRequest request = new CreateRuleNewRequest();
        request.withDomainName("{domain_name}");
        CreateRuleRequest body = new CreateRuleRequest();
        AccessControl accessControlActions = new AccessControl();
        accessControlActions.withType("block");
        List<Actions> listbodyActions = new ArrayList<>();
        listbodyActions.add(
            new Actions()
                .withAccessControl(accessControlActions)
        );
        List<String> listCriteriaMatchPattern = new ArrayList<>();
        listCriteriaMatchPattern.add("HTTP");
        List<Criteria> listMatchCriteria = new ArrayList<>();
```

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```
        listMatchCriteria.add(
            new Criteria()
                .withMatchTargetType("scheme")
                .withMatchType("contains")
                .withMatchPattern(listCriteriaMatchPattern)
                .withNegate(false)
                .withCaseSensitive(false)
        );
        Match matchConditions = new Match();
        matchConditions.withLogic("and")
            .withCriteria(listMatchCriteria);
        Conditions conditionsbody = new Conditions();
        conditionsbody.withMatch(matchConditions);
        body.withActions(listbodyActions);
        body.withConditions(conditionsbody);
        body.withPriority(1);
        body.withStatus("on");
        body.withName("example");
        request.withBody(body);
        try {
            CreateRuleNewResponse response = client.createRuleNew(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateRuleNewRequest()
        request.domain_name = "{domain_name}"
        accessControlActions = AccessControl(
            type="block"
        )
        listActionsbody = [
```

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```
            Actions(
                access_control=accessControlActions
            )
        ]
        listMatchPatternCriteria = [
            "HTTP"
        ]
        listCriteriaMatch = [
            Criteria(
                match_target_type="scheme",
                match_type="contains",
                match_pattern=listMatchPatternCriteria,
                negate=False,
                case_sensitive=False
            )
        ]
        matchConditions = Match(
            logic="and",
            criteria=listCriteriaMatch
        )
        conditionsbody = Conditions(
            match=matchConditions
        )
        request.body = CreateRuleRequest(
            actions=listActionsbody,
            conditions=conditionsbody,
            priority=1,
            status="on",
            name="example"
        )
        response = client.create_rule_new(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

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```
    request := &model.CreateRuleNewRequest{}
    request.DomainName = "{domain_name}"
    accessControlActions := &model.AccessControl{
        Type: "block",
    }
    var listActionsbody = []model.Actions{
        {
            AccessControl: accessControlActions,
        },
    }
    var listMatchPatternCriteria = List{
        "HTTP",
    }
    matchTargetTypeCriteria:= "scheme"
    matchTypeCriteria:= "contains"
    negateCriteria:= false
    caseSensitiveCriteria:= false
    var listCriteriaMatch = []model.Criteria{
        {
            MatchTargetType: &matchTargetTypeCriteria,
            MatchType: &matchTypeCriteria,
            MatchPattern: &listMatchPatternCriteria,
            Negate: &negateCriteria,
            CaseSensitive: &caseSensitiveCriteria,
        },
    }
    matchConditions := &model.Match{
        Logic: "and",
        Criteria: listCriteriaMatch,
    }
    conditionsbody := &model.Conditions{
        Match: matchConditions,
    }
    request.Body = &model.CreateRuleRequest{
        Actions: listActionsbody,
        Conditions: conditionsbody,
        Priority: int32(1),
        Status: "on",
        Name: "example",
    }
    response, err := client.CreateRuleNew(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

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Error Codes

See **Error Codes**.

4.2.12 Listing Rules in the Rules Engine

Function

This API is used to list rules in the rules engine.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/domains/{domain_name}/rules

Table 4-184 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-185 Response body parameters

Parameter	Type	Description
rules	Array of **RuleResponse** objects	Rule list.

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Table 4-186 RuleResponse

Parameter	Type	Description
rule_id	String	Rule ID.
name	String	Rule name.
status	String	Rule status. The value can be **on** (enabled) or **off** (disabled).
priority	Integer	Rule priority. A larger value indicates a higher priority.
conditions	**Conditions** object	**Definition** Conditions for triggering the rule. **Constraints** N/A
actions	Array of **Actions** objects	Actions to be executed when the rule conditions are met.

Table 4-187 Conditions

Parameter	Type	Description
match	**Match** object	**Definition** Rule conditions. **Constraints** N/A

Table 4-188 Match

Parameter	Type	Description
logic	String	**Definition** Logical operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A

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Parameter	Type	Description
criteria	Array of **Criteria** objects	**Definition** Match condition list. **Constraints** N/A

Table 4-189 Criteria

Parameter	Type	Description
match_target_type	String	**Definition** Match target type. **Constraints** N/A **Range** • **schema**: protocol used by a client request. • **method**: request method used by a client request. • **path**: URL requested by a client. • **arg**: query parameters in a request URL. • **extension**: file name extension of content requested by a client. • **filename**: file name of content requested by a client. • **header**: HTTP request headers. • **clientip**: IP address of a client. • **clientip_version**: IP version of a client request. • **ua**: User-Agent of a client request. • **ngx_variable**: Nginx variables. **Default Value** N/A

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Parameter	Type	Description
match_target_name	String	**Definition** Match target name. **Constraints** N/A **Range** • When the match target type is set to **schema**, **method**, **path**, **extension**, **filename**, or **ua**, the parameter is left blank. • When the match target type is set to **arg**, the value is the name of a query parameter. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **header**, the value is the name of a request header. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **clientip**, the value is an IP address source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **clientip_version**, the value is an IP version source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **ngx_variable**, the value is an Nginx variable name. It can be **$protocol**, **$arg_**, **$http_**, **$scheme**, **$uri**, **$ssl_protocol**, **$ssl_server_name**, **$remote_addr**, **$http2**, **$request_method**, or **$sent_http_**. **Default Value** N/A

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Parameter	Type	Description
match_type	String	**Definition** Match algorithm. **Constraints** N/A **Range** **contains**: Any condition specified in **match_pattern** is matched. **Default Value** N/A
match_pattern	Array of strings	**Definition** Match content. **Constraints** N/A **Range** • When the match target type is set to **schema**, the value can be **HTTP** or **HTTPS**. • When the match target type is set to **method**, the value can be **GET**, **PUT**, **POST**, **DELETE**, **HEAD**, **OPTIONS**, **PATCH**, **TRACE** or **CONNECT**. • When the match target type is set to **clientip_version**, the value can be **IPv4** or **IPv6**. • When the match target type is set to **path** or **ua**, the value supports wildcard characters (*). **Default Value** N/A

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Parameter	Type	Description
negate	Boolean	**Definition** Whether to perform negation. This parameter is used together with **match_type**. For example, if **negate** is set to **true** and **match_type** is set to **contains**, the actual service logic is converted to **not_contains**. **Constraints** N/A **Range** • **true**: negated. • **false**: not negated. **Default Value** false
case_sensitive	Boolean	**Definition** Case insensitive or not. **Constraints** N/A **Range** • **true**: case sensitive. • **false**: case-insensitive. **Default Value** false
logic	String	**Definition** Nested condition logic operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	Array of **Criteria** objects	**Definition** Nested condition list. **Constraints** N/A

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Table 4-190 Actions

Parameter	Type	Description
flexible_origin	Array of **flexibleOriginsEngine** objects	**Definition** Advanced origin rules. CDN can pull content from different origin servers by resource type or path. **Constraints** Up to 20 rules.
origin_request_header	Array of **OriginRequestHeader** objects	**Definition** Rewrite the HTTP headers in request URLs during CDN PoP origin pull. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
http_response_header	Array of **HttpResponseHeader** objects	**Definition** Headers returned by PoPs to clients. CDN includes them in responses to user requests for resources within that domain name. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
access_control	**AccessControl** object	**Definition** Access control. **Constraints** N/A

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Parameter	Type	Description
request_limit_rules	**RequestLimitRulesEngine** object	**Definition** Request rate limiting. This limits the user request rate within a specific range to reduce costs and the risk of burst bandwidth. **Constraints** N/A
origin_request_url_rewrite	**OriginRequestUrlRewriteEngine** object	**Definition** Origin request URL rewrite. **Constraints** Up to 20 rules.
cache_rule	**CacheRulesEngine** object	**Definition** Parameters used to control the cache TTL of origin server resources on CDN PoPs. **Constraints** N/A
request_url_rewrite	**RequestUrlRewriteEngine** object	**Definition** Access URL rewrite rules, which are used to redirect user requests to the URLs of cached content. **Constraints** N/A
browser_cache_rule	**BrowserCacheRulesEngine** object	**Definition** Browser cache TTL, during which users can obtain content directly from their browser cache (if available). **Constraints** N/A
error_code_cache	**ErrorCodeCacheEngine** object	**Definition** You can cache error codes returned by the origin server on CDN PoPs. When users request the same resources, CDN directly returns the error codes to the users. **Constraints** N/A

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Table 4-191 flexibleOriginsEngine

Parameter	Type	Description
sources_type	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: origin server IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket domain name. **Default Value** N/A
ip_or_domain	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	String	**Definition** OBS bucket type. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public

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Parameter	Type	Description
bucket_access_key	String	**Definition** Access key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_secret_key	String	**Definition** Secret key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_region	String	**Definition** Region of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_name	String	**Definition** Name of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
host_name	String	**Definition** Host header. **Constraints** N/A **Range** N/A **Default Value** Acceleration domain name.
origin_protocol	String	**Definition** Request protocol for CDN origin pull. **Constraints** N/A **Range** • **follow**: same as user. • **http**: HTTP. • **https**: HTTPS. **Default Value** http
http_port	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80
https_port	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443

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Parameter	Type	Description
priority	Integer	**Definition** Priority. A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
weight	Integer	**Definition** Weight. A larger value indicates that content is pulled from this origin server more frequently. If there are multiple origin servers with the same priority, the weight determines the proportion of content pulled from each origin server. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A

Table 4-192 OriginRequestHeader

Parameter	Type	Description
name	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). • Start with a letter. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. • Chinese characters are not allowed. • Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A
action	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

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Table 4-193 HttpResponseHeader

Parameter	Type	Description
name	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A
value	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-194 AccessControl

Parameter	Type	Description
type	String	**Definition** Access control type. **Constraints** N/A **Range** • **block**: Block. • **trust**: Allow. **Default Value** N/A

Table 4-195 RequestLimitRulesEngine

Parameter	Type	Description
limit_rate_after	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A
limit_rate_value	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A

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Table 4-196 OriginRequestUrlRewriteEngine

Parameter	Type	Description
rewrite_type	String	**Definition** Rewrite method. **Constraints** N/A **Range** • **simple**: exact. • **wildcard**: capturing. • **regex**: regular expression. (for whitelisted customers only. Submit a service ticket to enable this function.) **Default Value** N/A
source_url	String	**Definition** URI to rewrite. **Constraints** This parameter is mandatory when **rewrite_type** is set to **wildcard** or **regex**. When **rewrite_type** is set to **regex**, this parameter must start with ^/. Example: **^/test**. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example: **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A

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Parameter	Type	Description
target_url	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

Table 4-197 CacheRulesEngine

Parameter	Type	Description
ttl	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** N/A
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Parameter	Type	Description
follow_origin	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Table 4-198 RequestUrlRewriteEngine

Parameter	Type	Description
redirect_status_code	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A
redirect_url	String	**Definition** Redirection URL. **Constraints** • A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. • When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
redirect_host	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** • Enter 1 to 255 characters. • Start with http:// or https://. **Default Value** Acceleration domain name.
execution_mode	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

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Table 4-199 BrowserCacheRulesEngine

Parameter	Type	Description
cache_type	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Table 4-200 ErrorCodeCacheEngine

Parameter	Type	Description
code	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, and 414. • 5*xx*: 501, 502, 503, and 504. **Default Value** N/A
ttl	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/www.example.com/rules
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "rules" : [ {
    "rule_id" : "example**********id",
    "name" : "example",
    "status" : "on",
    "priority" : 1,
    "conditions" : {
      "match" : {
        "logic" : "and",
        "criteria" : [ {
          "match_target_type" : "scheme",
          "match_target_name" : "example",
          "match_type" : "contains",
          "match_pattern" : [ "HTTP" ],
          "negate" : false,
```

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```
        "case_sensitive" : false
      } ]
    }
  }
 } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.

Error Codes

See **Error Codes**.

4.2.13 Updating a Rule in the Rules Engine

Function

This API is used to update a rule in the rules engine.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/configuration/domains/{domain_name}/rules/{rule_id}

Table 4-201 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
rule_id	Yes	String	**Definition** Rule ID, which can be obtained by calling the API for listing rules in the rules engine. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-202 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Rule name. **Constraints** N/A **Range** 1 to 50 characters. **Default Value** N/A
status	Yes	String	**Definition** Whether the rule is enabled. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
priority	Yes	Integer	**Definition** Rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A
conditions	Yes	**Conditions** object	**Definition** Conditions for triggering the rule. **Constraints** N/A
actions	Yes	Array of **Actions** objects	**Definition** Action to be executed when the rule conditions are met. **Constraints** N/A

Table 4-203 Conditions

Parameter	Mandatory	Type	Description
match	Yes	**Match** object	**Definition** Rule conditions. **Constraints** N/A

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Table 4-204 Match

Parameter	Mandatory	Type	Description
logic	Yes	String	**Definition** Logical operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	Yes	Array of **Criteria** objects	**Definition** Match condition list. **Constraints** N/A

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Table 4-205 Criteria

Parameter	Mandatory	Type	Description
match_target_type	No	String	**Definition** Match target type. **Constraints** N/A **Range** • **schema**: protocol used by a client request. • **method**: request method used by a client request. • **path**: URL requested by a client. • **arg**: query parameters in a request URL. • **extension**: file name extension of content requested by a client. • **filename**: file name of content requested by a client. • **header**: HTTP request headers. • **clientip**: IP address of a client. • **clientip_version**: IP version of a client request. • **ua**: User-Agent of a client request. • **ngx_variable**: Nginx variables. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_target_name	No	String	**Definition** Match target name. **Constraints** N/A **Range** • When the match target type is set to **schema**, **method**, **path**, **extension**, **filename**, or **ua**, the parameter is left blank. • When the match target type is set to **arg**, the value is the name of a query parameter. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **header**, the value is the name of a request header. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **clientip**, the value is an IP address source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **clientip_version**, the value is an IP version source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **ngx_variable**, the value is an Nginx variable name. It can be **$protocol**, **$arg_**, **$http_**, **$scheme**, **$uri**, **$ssl_protocol**,

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Parameter	Mandatory	Type	Description
			$ssl_server_name, **$remote_addr**, **$http2**, **$request_method**, or **$sent_http_**. **Default Value** N/A
match_type	No	String	**Definition** Match algorithm. **Constraints** N/A **Range** **contains**: Any condition specified in **match_pattern** is matched. **Default Value** N/A
match_pattern	No	Array of strings	**Definition** Match content. **Constraints** N/A **Range** • When the match target type is set to **schema**, the value can be **HTTP** or **HTTPS**. • When the match target type is set to **method**, the value can be **GET**, **PUT**, **POST**, **DELETE**, **HEAD**, **OPTIONS**, **PATCH**, **TRACE** or **CONNECT**. • When the match target type is set to **clientip_version**, the value can be **IPv4** or **IPv6**. • When the match target type is set to **path** or **ua**, the value supports wildcard characters (*). **Default Value** N/A

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Parameter	Mandatory	Type	Description
negate	No	Boolean	**Definition** Whether to perform negation. This parameter is used together with **match_type**. For example, if **negate** is set to **true** and **match_type** is set to **contains**, the actual service logic is converted to **not_contains**. **Constraints** N/A **Range** • **true**: negated. • **false**: not negated. **Default Value** false
case_sensitive	No	Boolean	**Definition** Case insensitive or not. **Constraints** N/A **Range** • **true**: case sensitive. • **false**: case-insensitive. **Default Value** false
logic	No	String	**Definition** Nested condition logic operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	No	Array of **Criteria** objects	**Definition** Nested condition list. **Constraints** N/A

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Table 4-206 Actions

Parameter	Mandatory	Type	Description
flexible_origin	No	Array of **flexibleOriginsEngine** objects	**Definition** Advanced origin rules. CDN can pull content from different origin servers by resource type or path. **Constraints** Up to 20 rules.
origin_request_header	No	Array of **OriginRequestHeader** objects	**Definition** Rewrite the HTTP headers in request URLs during CDN PoP origin pull. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
http_response_header	No	Array of **HttpResponseHeader** objects	**Definition** Headers returned by PoPs to clients. CDN includes them in responses to user requests for resources within that domain name. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
access_control	No	**AccessControl** object	**Definition** Access control. **Constraints** N/A

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Parameter	Mandatory	Type	Description
request_limit_rules	No	**RequestLimitRulesEngine** object	**Definition** Request rate limiting. This limits the user request rate within a specific range to reduce costs and the risk of burst bandwidth. **Constraints** N/A
origin_request_url_rewrite	No	**OriginRequestUrlRewriteEngine** object	**Definition** Origin request URL rewrite. **Constraints** Up to 20 rules.
cache_rule	No	**CacheRulesEngine** object	**Definition** Parameters used to control the cache TTL of origin server resources on CDN PoPs. **Constraints** N/A
request_url_rewrite	No	**RequestUrlRewriteEngine** object	**Definition** Access URL rewrite rules, which are used to redirect user requests to the URLs of cached content. **Constraints** N/A
browser_cache_rule	No	**BrowserCacheRulesEngine** object	**Definition** Browser cache TTL, during which users can obtain content directly from their browser cache (if available). **Constraints** N/A
error_code_cache	No	**ErrorCodeCacheEngine** object	**Definition** You can cache error codes returned by the origin server on CDN PoPs. When users request the same resources, CDN directly returns the error codes to the users. **Constraints** N/A

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Table 4-207 flexibleOriginsEngine

Parameter	Mandatory	Type	Description
sources_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: origin server IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket domain name. **Default Value** N/A
ip_or_domain	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	No	String	**Definition** OBS bucket type. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public

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Parameter	Mandatory	Type	Description
bucket_access_key	No	String	**Definition** Access key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_secret_key	No	String	**Definition** Secret key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_region	No	String	**Definition** Region of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
bucket_name	No	String	**Definition** Name of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
host_name	No	String	**Definition** Host header. **Constraints** N/A **Range** N/A **Default Value** Acceleration domain name.
origin_protocol	No	String	**Definition** Request protocol for CDN origin pull. **Constraints** N/A **Range** • **follow**: same as user. • **http**: HTTP. • **https**: HTTPS. **Default Value** http
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80

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Parameter	Mandatory	Type	Description
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443
priority	Yes	Integer	**Definition** Priority. A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
weight	Yes	Integer	**Definition** Weight. A larger value indicates that content is pulled from this origin server more frequently. If there are multiple origin servers with the same priority, the weight determines the proportion of content pulled from each origin server. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A

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Table 4-208 OriginRequestHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). • Start with a letter. **Default Value** N/A
value	No	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. • Chinese characters are not allowed. • Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A

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Parameter	Mandatory	Type	Description
action	Yes	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

Table 4-209 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-210 AccessControl

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Access control type. **Constraints** N/A **Range** • **block**: Block. • **trust**: Allow. **Default Value** N/A

Table 4-211 RequestLimitRulesEngine

Parameter	Mandatory	Type	Description
limit_rate_after	Yes	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A
limit_rate_value	Yes	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A

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Table 4-212 OriginRequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
rewrite_type	Yes	String	**Definition** Rewrite method. **Constraints** N/A **Range** • **simple**: exact. • **wildcard**: capturing. • **regex**: regular expression. (for whitelisted customers only. Submit a service ticket to enable this function.) **Default Value** N/A
source_url	No	String	**Definition** URI to rewrite. **Constraints** This parameter is mandatory when **rewrite_type** is set to **wildcard** or **regex**. When **rewrite_type** is set to **regex**, this parameter must start with ^/. Example: **^/test**. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example: **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A

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Parameter	Mandatory	Type	Description
target_url	Yes	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

Table 4-213 CacheRulesEngine

Parameter	Mandatory	Type	Description
ttl	Yes	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** N/A
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	Yes	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Table 4-214 RequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
redirect_status_code	No	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A
redirect_url	Yes	String	**Definition** Redirection URL. **Constraints** • A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. • When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
redirect_host	Yes	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** • Enter 1 to 255 characters. • Start with http:// or https://. **Default Value** Acceleration domain name.
execution_mode	Yes	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

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Table 4-215 BrowserCacheRulesEngine

Parameter	Mandatory	Type	Description
cache_type	Yes	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	No	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A
ttl_unit	No	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Table 4-216 ErrorCodeCacheEngine

Parameter	Mandatory	Type	Description
code	Yes	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, and 414. • 5*xx*: 501, 502, 503, and 504. **Default Value** N/A
ttl	Yes	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/www.example/rules/
example********************ruleid

{
  "name" : "example",
  "status" : "on",
  "priority" : 1,
  "conditions" : {
    "match" : {
      "logic" : "and",
      "criteria" : [ {
        "match_target_type" : "scheme",
        "match_type" : "contains",
        "match_pattern" : [ "HTTP" ],
```

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```
      "negate" : false,
      "case_sensitive" : false
    } ]
  }
 },
 "actions" : [ {
  "access_control" : {
   "type" : "block"
  }
 } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateRuleNewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateRuleNewRequest request = new UpdateRuleNewRequest();
        request.withDomainName("{domain_name}");
        request.withRuleId("{rule_id}");
        UpdateRuleRequest body = new UpdateRuleRequest();
        AccessControl accessControlActions = new AccessControl();
        accessControlActions.withType("block");
        List<Actions> listbodyActions = new ArrayList<>();
        listbodyActions.add(
            new Actions()
                .withAccessControl(accessControlActions)
        );
        List<String> listCriteriaMatchPattern = new ArrayList<>();
```

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```
        listCriteriaMatchPattern.add("HTTP");
        List<Criteria> listMatchCriteria = new ArrayList<>();
        listMatchCriteria.add(
            new Criteria()
                .withMatchTargetType("scheme")
                .withMatchType("contains")
                .withMatchPattern(listCriteriaMatchPattern)
                .withNegate(false)
                .withCaseSensitive(false)
        );
        Match matchConditions = new Match();
        matchConditions.withLogic("and")
            .withCriteria(listMatchCriteria);
        Conditions conditionsbody = new Conditions();
        conditionsbody.withMatch(matchConditions);
        body.withActions(listbodyActions);
        body.withConditions(conditionsbody);
        body.withPriority(1);
        body.withStatus("on");
        body.withName("example");
        request.withBody(body);
        try {
            UpdateRuleNewResponse response = client.updateRuleNew(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateRuleNewRequest()
        request.domain_name = "{domain_name}"
        request.rule_id = "{rule_id}"
        accessControlActions = AccessControl(
```

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```
            type="block"
        )
        listActionsbody = [
            Actions(
                access_control=accessControlActions
            )
        ]
        listMatchPatternCriteria = [
            "HTTP"
        ]
        listCriteriaMatch = [
            Criteria(
                match_target_type="scheme",
                match_type="contains",
                match_pattern=listMatchPatternCriteria,
                negate=False,
                case_sensitive=False
            )
        ]
        matchConditions = Match(
            logic="and",
            criteria=listCriteriaMatch
        )
        conditionsbody = Conditions(
            match=matchConditions
        )
        request.body = UpdateRuleRequest(
            actions=listActionsbody,
            conditions=conditionsbody,
            priority=1,
            status="on",
            name="example"
        )
        response = client.update_rule_new(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
```

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```
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

    request := &model.UpdateRuleNewRequest{}
    request.DomainName = "{domain_name}"
    request.RuleId = "{rule_id}"
    accessControlActions := &model.AccessControl{
        Type: "block",
    }
    var listActionsbody = []model.Actions{
        {
            AccessControl: accessControlActions,
        },
    }
    var listMatchPatternCriteria = []string{
        "HTTP",
    }
    matchTargetTypeCriteria:= "scheme"
    matchTypeCriteria:= "contains"
    negateCriteria:= false
    caseSensitiveCriteria:= false
    var listCriteriaMatch = []model.Criteria{
        {
            MatchTargetType: &matchTargetTypeCriteria,
            MatchType: &matchTypeCriteria,
            MatchPattern: &listMatchPatternCriteria,
            Negate: &negateCriteria,
            CaseSensitive: &caseSensitiveCriteria,
        },
    }
    matchConditions := &model.Match{
        Logic: "and",
        Criteria: listCriteriaMatch,
    }
    conditionsbody := &model.Conditions{
        Match: matchConditions,
    }
    request.Body = &model.UpdateRuleRequest{
        Actions: listActionsbody,
        Conditions: conditionsbody,
        Priority: int32(1),
        Status: "on",
        Name: "example",
    }
    response, err := client.UpdateRuleNew(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

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Error Codes

See **Error Codes**.

4.2.14 Deleting a Rule from the Rules Engine

Function

This API is used to delete a rule from the rules engine.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1.0/cdn/configuration/domains/{domain_name}/rules/{rule_id}

Table 4-217 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A
rule_id	Yes	String	**Definition** Rule ID, which can be obtained by calling the API for listing rules in the rules engine. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

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Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
DELETE https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/domains/www.example/rules/
example**********id
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DeleteRuleNewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteRuleNewRequest request = new DeleteRuleNewRequest();
        request.withDomainName("{domain_name}");
        request.withRuleId("{rule_id}");
        try {
            DeleteRuleNewResponse response = client.deleteRuleNew(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

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```
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteRuleNewRequest()
        request.domain_name = "{domain_name}"
        request.rule_id = "{rule_id}"
        response = client.delete_rule_new(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
```

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```
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteRuleNewRequest{}
    request.DomainName = "{domain_name}"
    request.RuleId = "{rule_id}"
    response, err := client.DeleteRuleNew(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.15 Updating the Status and Priority of Rules

Function

This API is used to update the status and priority of rules in batches.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/domains/{domain_name}/rules/batch-update

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Table 4-218 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-219 Request body parameters

Parameter	Mandatory	Type	Description
rules	Yes	Array of **UpdateRuleStatusRequest** objects	**Definition** Rule list. **Constraints** N/A

Table 4-220 UpdateRuleStatusRequest

Parameter	Mandatory	Type	Description
rule_id	Yes	String	**Definition** Rule ID, which can be obtained by calling the API for listing rules in the rules engine. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
status	No	String	**Definition** Whether the rule is enabled. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
priority	No	Integer	**Definition** Rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
POST /v1.0/cdn/configuration/domains/{domain_name}/rules/batch-update

{
  "rules" : [ {
    "rule_id" : "example**********id",
    "name" : "example",
    "status" : "on",
    "priority" : 1,
    "conditions" : {
      "match" : {
        "logic" : "and",
        "criteria" : [ {
          "match_target_type" : "scheme",
          "match_target_name" : "example",
          "match_type" : "contains",
          "match_pattern" : [ "HTTP" ],
          "negate" : false,
          "case_sensitive" : false
        } ]
      }
```

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```
  }
 } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchUpdateRuleStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        BatchUpdateRuleStatusRequest request = new BatchUpdateRuleStatusRequest();
        request.withDomainName("{domain_name}");
        BatchUpdateRulesRequest body = new BatchUpdateRulesRequest();
        List<UpdateRuleStatusRequest> listbodyRules = new ArrayList<>();
        listbodyRules.add(
            new UpdateRuleStatusRequest()
                .withRuleId("example**********************id")
                .withStatus("on")
                .withPriority(1)
        );
        body.withRules(listbodyRules);
        request.withBody(body);
        try {
            BatchUpdateRuleStatusResponse response = client.batchUpdateRuleStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

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```
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchUpdateRuleStatusRequest()
        request.domain_name = "{domain_name}"
        listRulesbody = [
            UpdateRuleStatusRequest(
                rule_id="example**********id",
                status="on",
                priority=1
            )
        ]
        request.body = BatchUpdateRulesRequest(
            rules=listRulesbody
        )
        response = client.batch_update_rule_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
```

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```
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchUpdateRuleStatusRequest{}
    request.DomainName = "{domain_name}"
    statusRules:= "on"
    priorityRules:= int32(1)
    var listRulesbody = []model.UpdateRuleStatusRequest{
        {
            RuleId: "example**********id",
            Status: &statusRules,
            Priority: &priorityRules,
        },
    }
    request.Body = &model.BatchUpdateRulesRequest{
        Rules: listRulesbody,
    }
    response, err := client.BatchUpdateRuleStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

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4.2.16 Updating All Rules in the Rules Engine

Function

This API is used to update all rules in the rules engine.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/domains/{domain_name}/rules/full-update

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	**Definition** Acceleration domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-222 Request body parameters

Parameter	Mandatory	Type	Description
rules	Yes	Array of **CreateRuleRequest** objects	**Definition** Rule settings. Multiple rules can be configured. **Constraints** N/A

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Table 4-223 CreateRuleRequest

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Rule name. **Constraints** N/A **Range** 1 to 50 characters. **Default Value** N/A
status	Yes	String	**Definition** Whether the rule is enabled. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
priority	Yes	Integer	**Definition** Rule priority. A larger value indicates a higher priority. **Constraints** The priority must be unique. **Range** 1 to 100. **Default Value** N/A
conditions	Yes	**Conditions** object	**Definition** Conditions for triggering the rule. **Constraints** N/A
actions	Yes	Array of **Actions** objects	**Definition** Action to be executed when the rule conditions are met. **Constraints** N/A

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Table 4-224 Conditions

Parameter	Mandatory	Type	Description
match	Yes	**Match** object	**Definition** Rule conditions. **Constraints** N/A

Table 4-225 Match

Parameter	Mandatory	Type	Description
logic	Yes	String	**Definition** Logical operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	Yes	Array of **Criteria** objects	**Definition** Match condition list. **Constraints** N/A

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Table 4-226 Criteria

Parameter	Mandatory	Type	Description
match_target_type	No	String	**Definition** Match target type. **Constraints** N/A **Range** • **schema**: protocol used by a client request. • **method**: request method used by a client request. • **path**: URL requested by a client. • **arg**: query parameters in a request URL. • **extension**: file name extension of content requested by a client. • **filename**: file name of content requested by a client. • **header**: HTTP request headers. • **clientip**: IP address of a client. • **clientip_version**: IP version of a client request. • **ua**: User-Agent of a client request. • **ngx_variable**: Nginx variables. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_target_name	No	String	**Definition** Match target name. **Constraints** N/A **Range** • When the match target type is set to **schema**, **method**, **path**, **extension**, **filename**, or **ua**, the parameter is left blank. • When the match target type is set to **arg**, the value is the name of a query parameter. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **header**, the value is the name of a request header. It can contain 1 to 100 characters, including letters, digits, hyphens (-), and underscores (_). It must start with a letter. • When the match target type is set to **clientip**, the value is an IP address source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **clientip_version**, the value is an IP version source. It can be **connect** (connecting IP) or **xff** (**x-forwarded-for** header). • When the match target type is set to **ngx_variable**, the value is an Nginx variable name. It can be **$protocol**, **$arg_**, **$http_**, **$scheme**, **$uri**, **$ssl_protocol**,

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Parameter	Mandatory	Type	Description
			$ssl_server_name, **$remote_addr**, **$http2**, **$request_method**, or **$sent_http_**. **Default Value** N/A
match_type	No	String	**Definition** Match algorithm. **Constraints** N/A **Range** **contains**: Any condition specified in **match_pattern** is matched. **Default Value** N/A
match_pattern	No	Array of strings	**Definition** Match content. **Constraints** N/A **Range** • When the match target type is set to **schema**, the value can be **HTTP** or **HTTPS**. • When the match target type is set to **method**, the value can be **GET**, **PUT**, **POST**, **DELETE**, **HEAD**, **OPTIONS**, **PATCH**, **TRACE** or **CONNECT**. • When the match target type is set to **clientip_version**, the value can be **IPv4** or **IPv6**. • When the match target type is set to **path** or **ua**, the value supports wildcard characters (*). **Default Value** N/A

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Parameter	Mandatory	Type	Description
negate	No	Boolean	**Definition** Whether to perform negation. This parameter is used together with **match_type**. For example, if **negate** is set to **true** and **match_type** is set to **contains**, the actual service logic is converted to **not_contains**. **Constraints** N/A **Range** • **true**: negated. • **false**: not negated. **Default Value** false
case_sensitive	No	Boolean	**Definition** Case insensitive or not. **Constraints** N/A **Range** • **true**: case sensitive. • **false**: case-insensitive. **Default Value** false
logic	No	String	**Definition** Nested condition logic operator. **Constraints** N/A **Range** • **and**: AND relationship. • **or**: OR relationship. **Default Value** N/A
criteria	No	Array of **Criteria** objects	**Definition** Nested condition list. **Constraints** N/A

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Table 4-227 Actions

Parameter	Mandatory	Type	Description
flexible_origin	No	Array of **flexibleOriginsEngine** objects	**Definition** Advanced origin rules. CDN can pull content from different origin servers by resource type or path. **Constraints** Up to 20 rules.
origin_request_header	No	Array of **OriginRequestHeader** objects	**Definition** Rewrite the HTTP headers in request URLs during CDN PoP origin pull. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
http_response_header	No	Array of **HttpResponseHeader** objects	**Definition** Headers returned by PoPs to clients. CDN includes them in responses to user requests for resources within that domain name. **Constraints** • Original settings of all headers will be overwritten. When using this API, upload information of all headers. • If a special request header is configured for the domain name in the backend, pass this header as well.
access_control	No	**AccessControl** object	**Definition** Access control. **Constraints** N/A

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Parameter	Mandatory	Type	Description
request_limit_rules	No	**RequestLimitRulesEngine** object	**Definition** Request rate limiting. This limits the user request rate within a specific range to reduce costs and the risk of burst bandwidth. **Constraints** N/A
origin_request_url_rewrite	No	**OriginRequestUrlRewriteEngine** object	**Definition** Origin request URL rewrite. **Constraints** Up to 20 rules.
cache_rule	No	**CacheRulesEngine** object	**Definition** Parameters used to control the cache TTL of origin server resources on CDN PoPs. **Constraints** N/A
request_url_rewrite	No	**RequestUrlRewriteEngine** object	**Definition** Access URL rewrite rules, which are used to redirect user requests to the URLs of cached content. **Constraints** N/A
browser_cache_rule	No	**BrowserCacheRulesEngine** object	**Definition** Browser cache TTL, during which users can obtain content directly from their browser cache (if available). **Constraints** N/A
error_code_cache	No	**ErrorCodeCacheEngine** object	**Definition** You can cache error codes returned by the origin server on CDN PoPs. When users request the same resources, CDN directly returns the error codes to the users. **Constraints** N/A

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Table 4-228 flexibleOriginsEngine

Parameter	Mandatory	Type	Description
sources_type	Yes	String	**Definition** Origin server type. **Constraints** N/A **Range** • **ipaddr**: origin server IP address. • **domain**: origin server domain name. • **obs_bucket**: OBS bucket domain name. • **third_bucket**: third-party bucket domain name. **Default Value** N/A
ip_or_domain	Yes	String	**Definition** IP address or domain name of the origin server. **Constraints** N/A **Range** N/A **Default Value** N/A
obs_bucket_type	No	String	**Definition** OBS bucket type. **Constraints** Mandatory when the origin server is an OBS bucket. **Range** • **private**: private bucket. • **public**: public bucket. **Default Value** public

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Parameter	Mandatory	Type	Description
bucket_access_key	No	String	**Definition** Access key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_secret_key	No	String	**Definition** Secret key of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
bucket_region	No	String	**Definition** Region of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
bucket_name	No	String	**Definition** Name of the third-party bucket. **Constraints** Mandatory when the origin server is a third-party bucket. **Range** N/A **Default Value** N/A
host_name	No	String	**Definition** Host header. **Constraints** N/A **Range** N/A **Default Value** Acceleration domain name.
origin_protocol	No	String	**Definition** Request protocol for CDN origin pull. **Constraints** N/A **Range** • **follow**: same as user. • **http**: HTTP. • **https**: HTTPS. **Default Value** http
http_port	No	Integer	**Definition** HTTP port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 80

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Parameter	Mandatory	Type	Description
https_port	No	Integer	**Definition** HTTPS port. **Constraints** N/A **Range** 1 to 65,535. **Default Value** 443
priority	Yes	Integer	**Definition** Priority. A larger value indicates a higher priority. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A
weight	Yes	Integer	**Definition** Weight. A larger value indicates that content is pulled from this origin server more frequently. If there are multiple origin servers with the same priority, the weight determines the proportion of content pulled from each origin server. **Constraints** N/A **Range** 1 to 100. **Default Value** N/A

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Table 4-229 OriginRequestHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an origin request header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). • Start with a letter. **Default Value** N/A
value	No	String	**Definition** Value of the origin request header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. • Chinese characters are not allowed. • Variables, such as **$client_ip** and **$remote_port**, are not allowed. **Default Value** N/A

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Parameter	Mandatory	Type	Description
action	Yes	String	**Definition** Operation type of the origin request header. **Constraints** • A request header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original origin request, it is added. If it exists, it is modified. **Range** • delete • set **Default Value** N/A

Table 4-230 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-231 AccessControl

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Access control type. **Constraints** N/A **Range** • **block**: Block. • **trust**: Allow. **Default Value** N/A

Table 4-232 RequestLimitRulesEngine

Parameter	Mandatory	Type	Description
limit_rate_after	Yes	Long	**Definition** Rate limit condition. **NOTE** For example, **type=size,limit_rate_after=50** indicates that the speed is limited to the value of **limit_rate_value** after 50 bytes are transmitted. **Constraints** N/A **Range** 0 to 1,073,741,824, in bytes. **Default Value** N/A
limit_rate_value	Yes	Integer	**Definition** Rate limit, that is, the maximum access speed after the rate limit is reached. **Constraints** N/A **Range** 0 to 104,857,600, in bit/s. **Default Value** N/A

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Table 4-233 OriginRequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
rewrite_type	Yes	String	**Definition** Rewrite method. **Constraints** N/A **Range** • **simple**: exact. • **wildcard**: capturing. • **regex**: regular expression. (for whitelisted customers only. Submit a service ticket to enable this function.) **Default Value** N/A
source_url	No	String	**Definition** URI to rewrite. **Constraints** This parameter is mandatory when **rewrite_type** is set to **wildcard** or **regex**. When **rewrite_type** is set to **regex**, this parameter must start with ^/. Example: **^/test**. **Range** • Enter 1 to 512 characters. • Wildcards (*) are supported. Example: **/test/*/*.mp4**. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **Default Value** N/A

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Parameter	Mandatory	Type	Description
target_url	Yes	String	**Definition** URI after rewrite. **Constraints** **Range** • Enter 1 to 256 characters. • A URI starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. **NOTE** The *n*th wildcard (*) field can be captured by $*n*, where *n* = 1, 2, 3, ... Example: **/newtest/$1/$2.jpg**. **Default Value** N/A

Table 4-234 CacheRulesEngine

Parameter	Mandatory	Type	Description
ttl	Yes	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** N/A
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	Yes	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Table 4-235 RequestUrlRewriteEngine

Parameter	Mandatory	Type	Description
redirect_status_code	No	Integer	**Definition** Redirection status code. **Constraints** N/A **Range** • 301 • 302 • 303 • 307 **Default Value** N/A
redirect_url	Yes	String	**Definition** Redirection URL. **Constraints** • A target URL starts with a slash (/) and does not contain **http://**, **https://**, or the domain name. Example: **/test/index.html**. • When the match type is set to full path, the wildcard (*) can be captured by **$1**. For example, if the content is **/test/*.jpg** and the redirection URL is **/newtest/$1.jpg**, when a user requests **/test/11.jpg**, **$1** is replaced by **11**, so the requested URL after redirection is **/newtest/11.jpg**. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
redirect_host	Yes	String	**Definition** Domain name to which client requests are redirected. **Constraints** N/A **Range** • Enter 1 to 255 characters. • Start with http:// or https://. **Default Value** Acceleration domain name.
execution_mode	Yes	String	**Definition** Action. **Constraints** N/A **Range** • **redirect**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, if other rules exist, CDN continues to execute these rules. • **break**: If the requested URL matches this rule, the request is redirected to the target URL. After this rule is executed, CDN does not execute any other rules and returns status code 200. You cannot set the redirection host or status code. **Default Value** N/A

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Table 4-236 BrowserCacheRulesEngine

Parameter	Mandatory	Type	Description
cache_type	Yes	String	**Definition** Cache effective type. **Constraints** N/A **Range** • **follow_origin**: The cache policy of the origin server, that is, the setting of the **Cache-Control header**, is used. • **ttl**: The TTL set in this rule is used. • **never**: Browsers do not cache the resources. **Default Value** N/A
ttl	No	Integer	**Definition** Cache TTL. **Constraints** • Up to 365 days. • Mandatory when the cache effective type is set to **ttl**. **Range** N/A **Default Value** N/A
ttl_unit	No	String	**Definition** Unit of the cache TTL. **Constraints** Mandatory when the cache effective type is set to **ttl**. **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A

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Table 4-237 ErrorCodeCacheEngine

Parameter	Mandatory	Type	Description
code	Yes	Integer	**Definition** Error codes to cache. **Constraints** N/A **Range** • 3*xx*: 301 and 302. • 4*xx*: 400, 403, 404, 405, and 414. • 5*xx*: 501, 502, 503, and 504. **Default Value** N/A
ttl	Yes	Integer	**Definition** Error code cache TTL. **Constraints** N/A **Range** 0 to 31,536,000, in seconds. **NOTE** The cache TTL of 3*XX* status codes ranges from 0s to 20s. **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
POST /v1.0/cdn/configuration/domains/{domain_name}/rules/full-update

{
  "rules" : [ {
    "name" : "example",
    "status" : "on",
    "priority" : 1,
    "conditions" : {
      "match" : {
        "logic" : "and",
        "criteria" : [ {
          "match_target_type" : "scheme",
          "match_type" : "contains",
          "match_pattern" : [ "HTTP" ],
```

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```
        "negate" : false,
        "case_sensitive" : false
      } ]
    }
  },
  "actions" : [ {
    "access_control" : {
      "type" : "block"
    }
  } ]
 } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.17 Creating a Shared Cache Group

Function

This API is used to configure a shared cache group with a primary domain name to share its cache with other domain names. This improves the cache hit ratio.

- A domain name can be added to a shared cache group only when **Query Parameters** is set to **Ignore all** or **Retain all** in its cache rules.
- An account can have up to 500 shared cache groups.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/share-cache-groups

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Request Parameters

Table 4-238 Request body parameters

Parameter	Mandatory	Type	Description
group_name	No	String	**Definition** Shared cache group name. **Constraints** N/A **Range** • Enter 1 to 128 characters. • The following special characters are not supported: %&=?$"<> **Default Value** N/A
primary_domain	No	String	**Definition** Primary domain name. **Constraints** Only one primary domain name is allowed. **Range** N/A **Default Value** N/A
share_cache_records	No	Array of **ShareCacheGroupsRecord** objects	**Definition** Associated domain names. **Constraints** • The primary domain name must be transferred. • Up to 50 associated domain names are allowed.

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Table 4-239 ShareCacheGroupsRecord

Parameter	Mandatory	Type	Description
domain_name	No	String	**Definition** Associated domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/share-cache-groups

{
  "group_name" : "example",
  "primary_domain" : "www.example.com",
  "share_cache_records" : [ {
    "domain_name" : "www.example.com"
  }, {
    "domain_name" : "www.example.cn.com"
  } ]
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;
```

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```
import java.util.List;
import java.util.ArrayList;

public class CreateShareCacheGroupsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateShareCacheGroupsRequest request = new CreateShareCacheGroupsRequest();
        CreateShareCacheGroupsRequstBody body = new CreateShareCacheGroupsRequstBody();
        List<ShareCacheGroupsRecord> listbodyShareCacheRecords = new ArrayList<>();
        listbodyShareCacheRecords.add(
            new ShareCacheGroupsRecord()
                .withDomainName("www.example.com")
        );
        listbodyShareCacheRecords.add(
            new ShareCacheGroupsRecord()
                .withDomainName("www.example.cn.com")
        );
        body.withShareCacheRecords(listbodyShareCacheRecords);
        body.withPrimaryDomain("www.example.com");
        body.withGroupName("example");
        request.withBody(body);
        try {
            CreateShareCacheGroupsResponse response = client.createShareCacheGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
```

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```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateShareCacheGroupsRequest()
        listShareCacheRecordsbody = [
            ShareCacheGroupsRecord(
                domain_name="www.example.com"
            ),
            ShareCacheGroupsRecord(
                domain_name="www.example.cn.com"
            )
        ]
        request.body = CreateShareCacheGroupsRequstBody(
            share_cache_records=listShareCacheRecordsbody,
            primary_domain="www.example.com",
            group_name="example"
        )
        response = client.create_share_cache_groups(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateShareCacheGroupsRequest{}
    domainNameShareCacheRecords:= "www.example.com"
    domainNameShareCacheRecords1:= "www.example.cn.com"
```

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```
    var listShareCacheRecordsbody = []model.ShareCacheGroupsRecord{
        {
            DomainName: &domainNameShareCacheRecords,
        },
        {
            DomainName: &domainNameShareCacheRecords1,
        },
    }
    primaryDomainCreateShareCacheGroupsRequstBody:= "www.example.com"
    groupNameCreateShareCacheGroupsRequstBody:= "example"
    request.Body = &model.CreateShareCacheGroupsRequstBody{
        ShareCacheRecords: &listShareCacheRecordsbody,
        PrimaryDomain: &primaryDomainCreateShareCacheGroupsRequstBody,
        GroupName: &groupNameCreateShareCacheGroupsRequstBody,
    }
    response, err := client.CreateShareCacheGroups(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.2.18 Listing Shared Cache Groups

Function

This API is used to list shared cache groups.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/share-cache-groups

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Table 4-240 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	**Definition** Number of records on each page during pagination query. **Constraints** N/A **Range** 1 to 1,000. **Default Value** 10
offset	No	Integer	**Definition** Query offset, indicating the number of data records to skip for query. **Constraints** N/A **Range** 0 to 65,535. **Default Value** 0

Request Parameters

None

Response Parameters

Status code: 200

Table 4-241 Response body parameters

Parameter	Type	Description
total	Integer	Total number of shared cache groups.
share_cache_groups	Array of **ListShareCacheGroupsConfig** objects	Shared cache group configuration.

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Table 4-242 ListShareCacheGroupsConfig

Parameter	Type	Description
id	String	Shared cache group ID.
group_name	String	Shared cache group name.
create_time	Integer	Time when the shared cache group is created.
share_cache_records	Array of **ListShareCacheGroupsRecord** objects	Domain names sharing the cache.
primary_domain	String	Primary domain name of the shared cache group.

Table 4-243 ListShareCacheGroupsRecord

Parameter	Type	Description
domain_name	String	Associated domain name of the shared cache group.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/share-cache-groups?limit=1000&offset=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total" : 1,
  "share_cache_groups" : [ {
    "id" : "example**********id",
    "group_name" : "example",
    "create_time" : 1000000000000,
    "primary_domain" : "www.example.com",
    "share_cache_records" : [ {
      "domain_name" : "www.example.com"
    }, {
      "domain_name" : "www.example.cn.com"
    } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListShareCacheGroupsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListShareCacheGroupsRequest request = new ListShareCacheGroupsRequest();
        try {
            ListShareCacheGroupsResponse response = client.listShareCacheGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListShareCacheGroupsRequest()
        response = client.list_share_cache_groups(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListShareCacheGroupsRequest{}
    response, err := client.ListShareCacheGroups(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Request succeeded.

Error Codes

See **Error Codes**.

4.2.19 Updating a Shared Cache Group

Function

This API is used to update a shared cache group.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/configuration/share-cache-groups/{id}

Table 4-244 Path Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition** Shared cache group ID, which can be obtained by calling the API for listing shared cache groups. **Constraints** N/A **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-245 Request body parameters

Parameter	Mandatory	Type	Description
share_cache_records	No	Array of ShareCacheGroupsRecord objects	**Definition** Associated domain names. **Constraints** • The primary domain name must be transferred. • Up to 50 associated domain names are allowed.

Table 4-246 ShareCacheGroupsRecord

Parameter	Mandatory	Type	Description
domain_name	No	String	**Definition** Associated domain name. **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/share-cache-groups/
example**********id

{
  "share_cache_records" : [ {
    "domain_name" : "www.example.com"
  }, {
    "domain_name" : "www.example.cn.com"
  } ]
}
```

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Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateShareCacheGroupsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateShareCacheGroupsRequest request = new UpdateShareCacheGroupsRequest();
        request.withId("{id}");
        UpdateShareCacheGroupsRequstBody body = new UpdateShareCacheGroupsRequstBody();
        List<ShareCacheGroupsRecord> listbodyShareCacheRecords = new ArrayList<>();
        listbodyShareCacheRecords.add(
            new ShareCacheGroupsRecord()
                .withDomainName("www.example.com")
        );
        listbodyShareCacheRecords.add(
            new ShareCacheGroupsRecord()
                .withDomainName("www.example.cn.com")
        );
        body.withShareCacheRecords(listbodyShareCacheRecords);
        request.withBody(body);
        try {
            UpdateShareCacheGroupsResponse response = client.updateShareCacheGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateShareCacheGroupsRequest()
        request.id = "{id}"
        listShareCacheRecordsbody = [
            ShareCacheGroupsRecord(
                domain_name="www.example.com"
            ),
            ShareCacheGroupsRecord(
                domain_name="www.example.cn.com"
            )
        ]
        request.body = UpdateShareCacheGroupsRequstBody(
            share_cache_records=listShareCacheRecordsbody
        )
        response = client.update_share_cache_groups(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

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```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateShareCacheGroupsRequest{}
    request.Id = "{id}"
    domainNameShareCacheRecords:= "www.example.com"
    domainNameShareCacheRecords1:= "www.example.cn.com"
    var listShareCacheRecordsbody = []model.ShareCacheGroupsRecord{
        {
            DomainName: &domainNameShareCacheRecords,
        },
        {
            DomainName: &domainNameShareCacheRecords1,
        },
    }
    request.Body = &model.UpdateShareCacheGroupsRequstBody{
        ShareCacheRecords: &listShareCacheRecordsbody,
    }
    response, err := client.UpdateShareCacheGroups(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

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4.2.20 Deleting a Shared Cache Group

Function

This API is used to delete a shared cache group.

- A shared cache group can be deleted only when no domain names are linked to it.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1.0/cdn/configuration/share-cache-groups/{id}

Table 4-247 Path Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition** Shared cache group ID, which can be obtained by calling the API for listing shared cache groups. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
DELETE https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/share-cache-groups/
example**********id
```

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Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DeleteShareCacheGroupsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteShareCacheGroupsRequest request = new DeleteShareCacheGroupsRequest();
        request.withId("{id}");
        try {
            DeleteShareCacheGroupsResponse response = client.deleteShareCacheGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
```

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```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteShareCacheGroupsRequest()
        request.id = "{id}"
        response = client.delete_share_cache_groups(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteShareCacheGroupsRequest{}
    request.Id = "{id}"
    response, err := client.DeleteShareCacheGroups(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

4.3 Analytics

4.3.1 Querying Domain Name Statistics by Region and Carrier

Function

- You can query data within the past 90 days.
- You can query up to five metrics each time.
- You can query up to 20 domain names each time.
- The start time and end time must be timestamps in milliseconds and must be exact time points that match the query interval. For example, if the query interval is 5 minutes, the start time and end time must be exact 5-minute intervals, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the time points do not match the query interval, the returned data may not be the expected data. If the start time is **2019-01-24 20:15:00** and the query interval is 5 minutes, the statistics in [20:15:00, 20:20:00) are queried.
- Values of **action** include **location_detail** and **location_summary**.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity and status code-related metrics. You can query statistics about specific domain names by specific metrics, regions, and carriers.
- A single tenant can call this API 15 times per second.

Calling Method

For details, see **Calling APIs**.

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URI

GET /v1.0/cdn/statistics/domain-location-stats

Table 4-248 Query Parameters

Parameter	Mandatory	Type	Description
action	Yes	String	• Action name. Possible values: **location_summary** and **location_detail**. • **location_summary**: querying summary data. • **location_detail**: querying data details.
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).

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Parameter	Mandatory	Type	Description
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.

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Parameter	Mandatory	Type	Description
stat_type	Yes	String	• Network resource consumption statistics: – **bw** (bandwidth) – **flux** (traffic) • Access statistics: – **req_num** (number of requests) • HTTP status code statistics (one or more types can be returned): – **http_code_2xx** (status codes 2*xx*) – **http_code_3xx** (status codes 3*xx*) – **http_code_4xx** (status codes 4*xx*) – **http_code_5xx** (status codes 5*xx*) – **status_code_2xx** (details of status codes 2*xx*) – **status_code_3xx** (details of status codes 3*xx*) – **status_code_4xx** (details of status codes 4*xx*) – **status_code_5xx** (details of status codes 5*xx*)
interval	No	Long	• Query interval, in seconds. • **300** (5 minutes): The maximum query time span is two days. • **3600** (1 hour): The maximum query time span is seven days. • **86400** (one day): The maximum query time span is 31 days. • If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.

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Parameter	Mandatory	Type	Description
country	No	String	• Country and region codes, which are separated by commas (,). The value **all** indicates all codes. For details about the values, see the appendix. • This parameter cannot be set when carrier statistics are queried. • This parameter cannot be set when top URL statistics are queried. • When accessing regional data, set this parameter to **cn** (China).
province	No	String	Province code. This parameter is valid when **country** is set to **cn** (China). Use commas (,) to separate multiple codes. **all** indicates all provinces are queried. For details about the values, see the appendix.
isp	No	String	Carrier code. Use commas (,) to separate multiple codes. **all** indicates all carriers are queried. For details about the values, see the appendix.
group_by	No	String	Data grouping mode. Use commas (,) to separate multiple groups. Available data groups are **domain**, **country**, **province**, and **isp**. By default, data is not grouped.
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

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Response Parameters

Status code: 200

Table 4-249 Response body parameters

Parameter	Type	Description
group_by	String	Data grouping mode.
result	Map<String,Object>	Data organized according to the specified grouping mode.

Status code: default

Table 4-250 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-251 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Ungrouped domain details

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-location-stats?action=location_summary&start_time=1667030400000&end_time=1667116800000&domain_name=www.test1.com&stat_type=flux&interval=300&country=cn&province=sichuan&isp=dianxin&enterprise_project_id=all
```

- Domain details by domain

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-location-stats?action=location_summary&start_time=1667030400000&end_time=1667116800000&domain_name=www.test1.com&stat_type=flux&interval=300&country=cn&province=sichuan&isp=dianxin&group_by=domain&enterprise_project_id=all
```

Example Responses

Status code: 200

Success response

- Ungrouped domain details

```
{
  "result" : {
```

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```
    "flux" : [ 0, 1, 2 ]
  }
}
```

- Domain details by domain

```
{
  "group_by" : "domain",
  "result" : {
    "www.test1.com" : {
      "flux" : [ 0, 1, 2 ]
    },
    "www.test2.com" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
}
```

- Domain details by country/region

```
{
  "group_by" : "country",
  "result" : {
    "cn" : {
      "flux" : [ 0, 1, 2 ]
    },
    "jp" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
}
```

- Domain details by province

```
{
  "group_by" : "province",
  "result" : {
    "sichuan" : {
      "flux" : [ 0, 1, 2 ]
    },
    "hubei" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
}
```

- Domain details by carrier

```
{
  "group_by" : "isp",
  "result" : {
    "dianxin" : {
      "flux" : [ 0, 1, 2 ]
    },
    "liantong" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
}
```

- Domain details by domain and country/region

```
{
  "group_by" : "domain,country",
  "result" : {
    "www.test1.com" : {
      "cn" : {
        "flux" : [ 0, 1, 2 ]
      },
      "gb" : {
        "flux" : [ 0, 1, 2 ]
      }
    },
    "www.test2.com" : {
```

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```
    "cn" : {
      "flux" : [ 0, 1, 2 ]
    },
    "gb" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
 }
}
```

- Domain details by domain and carrier

```
{
 "group_by" : "domain,isp",
 "result" : {
  "www.test1.com" : {
   "dianxin" : {
    "req_num" : [ 0, 1, 2 ]
   }
  },
  "www.test2.com" : {
   "dianxin" : {
    "req_num" : [ 0, 1, 2 ]
   }
  }
 }
}
```

- Overall domain data

```
{
 "result" : {
  "flux" : 1024
 }
}
```

- Overall data by domain

```
{
 "group_by" : "domain",
 "result" : {
  "www.test1.com" : {
   "flux" : 1024
  },
  "www.test2.com" : {
   "flux" : 1024
  }
 }
}
```

- Overall domain data by country/region

```
{
 "group_by" : "country",
 "result" : {
  "cn" : {
   "flux" : 1024
  },
  "jp" : {
   "flux" : 1024
  }
 }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```

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```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowDomainLocationStatsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowDomainLocationStatsRequest request = new ShowDomainLocationStatsRequest();
        try {
            ShowDomainLocationStatsResponse response = client.showDomainLocationStats(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
```

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```
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowDomainLocationStatsRequest()
        response = client.show_domain_location_stats(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDomainLocationStatsRequest{}
    response, err := client.ShowDomainLocationStats(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.3.2 Querying Domain Name Statistics

Function

- You can query data within the past 90 days.
- You can query up to five metrics each time.
- You can query up to 20 domain names each time.
- The start time and end time must be timestamps in milliseconds and must be exact time points that match the query interval. For example, if the query interval is 5 minutes, the start time and end time must be exact 5-minute intervals, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the time points do not match the query interval, the returned data may not be the expected data. If the start time is **2019-01-24 20:15:00** and the query interval is 5 minutes, the statistics in [20:15:00, 20:20:00) are queried.
- Values of **action** include **detail** and **summary**.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity and status code-related metrics. You can query statistics about specific domain names by specific metrics.
- A single tenant can call this API 15 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/domain-stats

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Table 4-252 Query Parameters

Parameter	Mandatory	Type	Description
action	Yes	String	• Action name. Possible values are **summary** and **detail**. • **summary**: querying summary data. • **detail**: querying data details.
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).

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Parameter	Mandatory	Type	Description
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.

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Parameter	Mandatory	Type	Description
stat_type	Yes	String	• Network resource consumption statistics: – **bw** (bandwidth) – **flux** (traffic) – **bs_bw** (pull bandwidth) – **bs_flux** (pull traffic) • Access statistics: – **req_num** (number of requests) – **hit_num** (number of hits) – **bs_num** (number of pull requests) – **bs_fail_num** (number of failed pull requests) – **hit_flux** (traffic generated by requests that hit the caches) • HTTP status code statistics (one or more types can be returned): – **http_code_2xx** (status codes 2*xx*) – **http_code_3xx** (status codes 3*xx*) – **http_code_4xx** (status codes 4*xx*) – **http_code_5xx** (status codes 5*xx*) – **bs_http_code_2xx** (origin status codes 2*xx*) – **bs_http_code_3xx** (origin status codes 3*xx*) – **bs_http_code_4xx** (origin status codes 4*xx*) – **bs_http_code_5xx** (origin status codes 5*xx*) – **status_code_2xx** (details of status codes 2*xx*) – **status_code_3xx** (details of status codes 3*xx*) – **status_code_4xx** (details of status codes 4*xx*)

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Parameter	Mandatory	Type	Description
			– **status_code_5xx** (details of status codes 5*xx*) – **bs_status_code_2xx** (details of origin status codes 2*xx*) – **bs_status_code_3xx** (details of origin status code 3*xx*) – **bs_status_code_4xx** (details of origin status codes 4*xx*) – **bs_status_code_5xx** (details of origin status codes 5*xx*) – **status_code** and **bs_status_code** cannot be queried at the same time.
interval	No	Long	• Query interval, in seconds. • **300** (5 minutes): The maximum query time span is two days. • **3600** (1 hour): The maximum query time span is seven days. • **86400** (one day): The maximum query time span is 31 days. • If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
group_by	No	String	Data grouping mode. This parameter can be set to **domain**. By default, data is not grouped.
service_area	No	String	Service region. The value can be **mainland_china** (default), **outside_mainland_china**, or **global**. This parameter is invalid for querying origin pull metrics and status code details metrics.

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Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-253 Response body parameters

Parameter	Type	Description
result	Map<String,Object>	Data organized according to the specified grouping mode.

Status code: default

Table 4-254 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-255 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Ungrouped details

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```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-stats?
action=detail&start_time=1667030400000&end_time=1667034000000&domain_name=www.test1.com
&stat_type=flux&interval=300&service_area=mainland_china&enterprise_project_id=all
```

- Domain details by domain

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-stats?
action=detail&start_time=1667030400000&end_time=1667034000000&domain_name=www.test1.com
&stat_type=flux&interval=300&group_by=domain&service_area=mainland_china&enterprise_project_id
=all
```

Example Responses

Status code: 200

Success response

- Ungrouped details

```
{
  "start_time" : 1667030400000,
  "end_time" : 1667034000000,
  "stat_type" : "flux",
  "action" : "detail",
  "interval" : 300,
  "result" : {
    "503" : [ 1000, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 ],
    "504" : [ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1000 ]
  }
}
```

- Domain details by domain

```
{
  "start_time" : 1667030400000,
  "end_time" : 1667034000000,
  "stat_type" : "flux",
  "action" : "detail",
  "interval" : 300,
  "group_by" : "domain",
  "result" : {
    "www.test1.com" : {
      "200" : [ 118, 105, 113, 115, 114, 111, 106, 108, 118, 94, 97, 113 ],
      "206" : [ 115, 113, 125, 102, 132, 95, 133, 105, 117, 109, 128, 109 ]
    },
    "www.test2.com" : {
      "200" : [ 118, 105, 113, 115, 114, 111, 106, 108, 118, 94, 97, 113 ],
      "206" : [ 115, 113, 125, 102, 132, 95, 133, 105, 117, 109, 128, 109 ]
    }
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;
```

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```
public class ShowDomainStatsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowDomainStatsRequest request = new ShowDomainStatsRequest();
        try {
            ShowDomainStatsResponse response = client.showDomainStats(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowDomainStatsRequest()
        response = client.show_domain_stats(request)
        print(response)
    except exceptions.ClientRequestException as e:
```

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```
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDomainStatsRequest{}
    response, err := client.ShowDomainStats(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

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Error Codes

See **Error Codes**.

4.3.3 Querying Top 100 URLs

Function

- This API is used to query top 100 URLs.
- You can query data within the past 90 days.
- The query time span cannot exceed 31 days.
- The start time and end time must be both specified. For example, if the start time is 2021-10-24 00:00:00 and end time is 2021-10-25 00:00:00, the statistics in [2021-10-24 00:00:00, 2021-10-25 00:00:00) are queried.
- The start time and end time must be timestamps in milliseconds. They must be 00:00:00. Otherwise, the returned data may not be the expected data.
- Traffic metrics are measured by byte, and request metrics are measured by number of times. You can query statistics about specific domain names by specific metrics.
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/top-url

Table 4-256 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	Start timestamp of the query. Only the timestamp of 00:00:00 is allowed.
end_time	Yes	Long	End timestamp of the query. Only the timestamp of 00:00:00 is allowed.

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
stat_type	Yes	String	• Statistics types. Possible values: **flux** (traffic) and **req_num** (total requests).
service_area	No	String	Service area. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (default value).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-257 Response body parameters

Parameter	Type	Description
service_area	String	Service area.

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Parameter	Type	Description
top_url_summary	Array of **TopUrlSummary** objects	Detailed data.

Table 4-258 TopUrlSummary

Parameter	Type	Description
url	String	URL name.
value	Long	Return value of a query. Traffic unit: byte.
start_time	Long	Start timestamp of the query.
end_time	Long	End timestamp of the query.
stat_type	String	Statistics types. Possible values: **flux** (traffic) and **req_num** (total requests).

Status code: default

Table 4-259 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-260 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Querying the number of access requests to top 100 URLs

  ```
  GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-url?
  &start_time=1667030400000&end_time=1667116800000&domain_name=www.test1.com&stat_type=req_num&service_area=mainland_china&enterprise_project_id=all
  ```

- Querying the traffic details of top 100 URLs

  ```
  GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-url?
  &start_time=1667030400000&end_time=1667116800000&domain_name=www.test1.com&stat_type=flux&service_area=mainland_china&enterprise_project_id=all
  ```

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Example Responses

Status code: 200

Success response

- Querying the number of access requests to top 100 URLs

```
{
  "top_url_summary" : [ {
    "url" : "www.test1.com",
    "value" : 888,
    "start_time" : 1667030400000,
    "end_time" : 1667116800000,
    "stat_type" : "req_num"
  }, {
    "url" : "www.test2.com",
    "value" : 666,
    "start_time" : 1667030400000,
    "end_time" : 1667116800000,
    "stat_type" : "req_num"
  } ],
  "service_area" : "mainland"
}
```

- Querying the traffic details of top 100 URLs

```
{
  "top_url_summary" : [ {
    "url" : "www.test1.com",
    "value" : 1024,
    "start_time" : 1667030400000,
    "end_time" : 1667116800000,
    "stat_type" : "flux"
  }, {
    "url" : "www.test2.com",
    "value" : 1024,
    "start_time" : 1667030400000,
    "end_time" : 1667116800000,
    "stat_type" : "flux"
  } ],
  "service_area" : "mainland"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowTopUrlSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
```

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```
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowTopUrlRequest request = new ShowTopUrlRequest();
        try {
            ShowTopUrlResponse response = client.showTopUrl(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTopUrlRequest()
        response = client.show_top_url(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTopUrlRequest{}
    response, err := client.ShowTopUrl(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

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4.3.4 Querying Details About Top 100 Referers

Function

- This API is used to query top 100 referers.
- You can query data within the past 90 days.
- The query time span cannot exceed 31 days.
- A single tenant can call this API twice per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/top-refers

Table 4-261 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	Start timestamp of the query. Only the timestamp of 00:00:00 is allowed.
end_time	Yes	Long	End timestamp of the query. Only the timestamp of 00:00:00 is allowed.
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
stat_type	Yes	String	• Metric type. • Currently, only **flux** (traffic) and **req_num** (number of requests) are supported.

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Parameter	Mandatory	Type	Description
service_area	No	String	Service area. Possible values: **mainland_china** (Chinese mainland), **outside_mainland_china** (outside the Chinese mainland), and **global** (default value).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-262 Response body parameters

Parameter	Type	Description
top_refer_summary	Array of **TopReferSummary** objects	Detailed data.

Table 4-263 TopReferSummary

Parameter	Type	Description
refer	String	Referer value.
value	Long	Return value of a query. Traffic unit: byte.

Status code: default

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Table 4-264 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-265 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

- Querying top 100 referers by the number of requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-refers?
&start_time=1667030400000&end_time=1667116800000&domain_name=all&stat_type=req_num&service_area=mainland_china&enterprise_project_id=all
```

- Querying top 100 referers by traffic

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-refers?
&start_time=1667030400000&end_time=1667116800000&domain_name=all&stat_type=flux&service_area=mainland_china&enterprise_project_id=all
```

Example Responses

Status code: 200

Success response

- Querying top 100 referers by the number of requests

```
{
  "top_refer_summary" : [ {
    "refer" : "www.test1.com",
    "value" : 1000
  }, {
    "refer" : "www.test2.com",
    "value" : 2000
  } ]
}
```

- Querying top 100 referers by traffic

```
{
  "top_refer_summary" : [ {
    "refer" : "www.test1.com",
    "value" : 50
  }, {
    "refer" : "www.test2.com",
    "value" : 100
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

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Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListCdnDomainTopRefersSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListCdnDomainTopRefersRequest request = new ListCdnDomainTopRefersRequest();
        try {
            ListCdnDomainTopRefersResponse response = client.listCdnDomainTopRefers(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]
```

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```
    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListCdnDomainTopRefersRequest()
        response = client.list_cdn_domain_top_refers(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListCdnDomainTopRefersRequest{}
    response, err := client.ListCdnDomainTopRefers(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.3.5 Querying Analytics Configurations

Function

- Configuration type. Value range:
- **0**: popular content statistics.
- **1**: Cloud Eye reporting.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/cdn/statistics/stats-configs

Table 4-266 Query Parameters

Parameter	Mandatory	Type	Description
config_type	Yes	Integer	• Configuration Type • Value range: **0** (popular content statistics) and **1** (Cloud Eye reporting).

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-267 Response body parameters

Parameter	Type	Description
total	Integer	Number of Analytics configurations.
data	Array of **StatsConfigDetails** objects	Configuration details.

Table 4-268 StatsConfigDetails

Parameter	Type	Description
config_type	Integer	Configuration type. **0**: popular content statistics.
resource_type	String	Resource type. **domain:resource_name**: domain name. **account:resource_name**: account.
resource_name	String	Resource name, which is an account or a list of domain names. Separate domain names with commas (,).
config_info	**ConfigInfo** object	Configuration information.
expired_time	Long	Time when the Analytics configuration expires. The value is a timestamp in seconds.

Table 4-269 ConfigInfo

Parameter	Type	Description
url	**TopUrl** object	**top_url** configuration.
ua	**TopUa** object	**top_ua** configuration.

Table 4-270 TopUrl

Parameter	Type	Description
enable	Boolean	Configuration status.
limit	Integer	Number of metric items to report in the popular content statistics. For example, **top_url 100** or **top_url 1000**.

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Parameter	Type	Description
sort_by_code	Boolean	Whether popular content statistics metrics can be reported by status code.

Table 4-271 TopUa

Parameter	Type	Description
enable	Boolean	Configuration status.

Status code: default

Table 4-272 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-273 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying Analytics configurations

```
GET https://cdn.myhuaweicloud.com/v1/cdn/statistics/stats-configs?&config_type=0
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
```

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```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowStatsConfigsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowStatsConfigsRequest request = new ShowStatsConfigsRequest();
        try {
            ShowStatsConfigsResponse response = client.showStatsConfigs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
```

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```
        .build()

    try:
        request = ShowStatsConfigsRequest()
        response = client.show_stats_configs(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowStatsConfigsRequest{}
    response, err := client.ShowStatsConfigs(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.

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Status Code	Description
default	Error response.

Error Codes

See **Error Codes**.

4.3.6 Setting an Analytics Configuration

Function

- This API is used to set an Analytics configuration.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/cdn/statistics/stats-configs

Request Parameters

Table 4-274 Request body parameters

Parameter	Mandatory	Type	Description
config_type	No	Integer	Configuration type. **0**: popular content statistics.
resource_type	Yes	String	Resource type. **domain:resource_name**: domain name. **account:resource_name**: account.
resource_name	Yes	String	Resource name, which is an account or a list of domain names. Separate domain names with commas (,).
config_info	Yes	**config_info** object	Configuration information. Top *N* metrics support only user agent, referer, URL, and origin URL.

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Parameter	Mandatory	Type	Description
expired_time	No	Long	Time when the Analytics configuration expires. The value is a timestamp in seconds. The time cannot be one year later than the current time.

Table 4-275 config_info

Parameter	Mandatory	Type	Description
url	No	**TopUrlinReq** object	**top_url** configuration.
ua	No	**TopUa** object	**top_ua** configuration.

Table 4-276 TopUrlinReq

Parameter	Mandatory	Type	Description
enable	No	Boolean	Configuration status.

Table 4-277 TopUa

Parameter	Mandatory	Type	Description
enable	No	Boolean	Configuration status.

Response Parameters

Status code: 204

Success response.

Status code: default

Table 4-278 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

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Table 4-279 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Creating an Analytics configuration

```
post https://cdn.myhuaweicloud.com/v1/cdn/statistics/stats-configs

{
  "config_type" : 0,
  "resource_type" : "www.example.com",
  "resource_name" : "all",
  "config_info" : {
    "url" : {
      "enable" : true
    },
    "ura" : {
      "enable" : true
    }
  },
  "expired_time" : 1712678400
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Creating an Analytics configuration

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class SetStatsConfigSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        SetStatsConfigRequest request = new SetStatsConfigRequest();
        SetStatsConfigBody body = new SetStatsConfigBody();
        TopUrlinReq urlConfigInfo = new TopUrlinReq();
        urlConfigInfo.withEnable(true);
        ConfigInfo configInfobody = new ConfigInfo();
        configInfobody.withUrl(urlConfigInfo);
        body.withExpiredTime(1712678400L);
        body.withConfigInfo(configInfobody);
        body.withResourceName("all");
        body.withResourceType("www.example.com");
        body.withConfigType(0);
        request.withBody(body);
        try {
            SetStatsConfigResponse response = client.setStatsConfig(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Creating an Analytics configuration

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```

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```
        request = SetStatsConfigRequest()
        urlConfigInfo = TopUrlinReq(
            enable=True
        )
        configInfobody = ConfigInfo(
            url=urlConfigInfo
        )
        request.body = SetStatsConfigBody(
            expired_time=1712678400,
            config_info=configInfobody,
            resource_name="all",
            resource_type="www.example.com",
            config_type=0
        )
        response = client.set_stats_config(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Creating an Analytics configuration

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.SetStatsConfigRequest{}
    enableUrl:= true
    urlConfigInfo := &model.TopUrlinReq{
        Enable: &enableUrl,
    }
    configInfobody := &model.ConfigInfo{
        Url: urlConfigInfo,
    }
    expiredTimeSetStatsConfigBody:= int64(1712678400)
    configTypeSetStatsConfigBody:= int32(0)
    request.Body = &model.SetStatsConfigBody{
        ExpiredTime: &expiredTimeSetStatsConfigBody,
        ConfigInfo: configInfobody,
```

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```
        ResourceName: "all",
        ResourceType: "www.example.com",
        ConfigType: &configTypeSetStatsConfigBody,
    }
    response, err := client.SetStatsConfig(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Success response.
default	Error response.

Error Codes

See **Error Codes**.

4.3.7 Querying Daily Client Access Details by Domain Name

Function

- This API is used to query daily client access details by domain name.
- You can query data within the past 90 days.
- The **ip_num** query covers up to one day, while the **uv** query spans only 5 minutes.
- The start time and end time must be both specified. For example, if the start time is 2022-07-12 00:00:00 and end time is 2022-07-13 00:00:00, the statistics in [2022-07-12 00:00:00, 2022-07-13 00:00:00) are queried.
- The start time and end time of the **ip_num** query must be timestamps in milliseconds. They must be 00:00:00. Otherwise, the returned data may not be the expected data.
- For the **uv** query, only exact 5-minute intervals are allowed, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the values are not exact 5-minute intervals, the returned data may not be the expected data.

Calling Method

For details, see **Calling APIs**.

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URI

GET /v1.0/cdn/statistics/domain-client-stats

Table 4-280 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).

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Parameter	Mandatory	Type	Description
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
stat_type	Yes	String	• Types of client access metrics: • **ip_num** (number of unique IP addresses) • **uv** (number of unique visitors within 5 minutes. Each unique IP address is counted as a unique visitor.)

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Parameter	Mandatory	Type	Description
service_area	No	String	Region. Possible values: **mainland_china** (Chinese mainland, default) and **outside_mainland_china** (outside the Chinese mainland).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-281 Response body parameters

Parameter	Type	Description
service_area	String	Area.
result	Array of Map<String,Object> objects	Daily client access details by domain name.

Status code: default

Table 4-282 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

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Table 4-283 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying client access details

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-client-stats?
&start_time=1577808000000&end_time=1577894400000&domain_name=www.test1.com&stat_type=ip_num
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListDomainClientStatsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListDomainClientStatsRequest request = new ListDomainClientStatsRequest();
        try {
            ListDomainClientStatsResponse response = client.listDomainClientStats(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
```

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```
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListDomainClientStatsRequest()
        response = client.list_domain_client_stats(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

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```
    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListDomainClientStatsRequest{}
    response, err := client.ListDomainClientStats(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response.
default	Error response.

Error Codes

See **Error Codes**.

4.3.8 Querying Top Origin URLs of a Domain Name

Function

- This API is used to query top origin URLs of a domain name.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/top-origin-urls

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Table 4-284 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
group_by	No	String	Data grouping mode. This parameter can be set to **domain**. By default, data is not grouped.
stat_type	Yes	String	• Statistics types. Possible values: **flux** (traffic) and **req_num** (total requests).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
include_ratio	No	Boolean	Whether the percentage data is included. The default value is **false**.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-285 Response body parameters

Parameter	Type	Description
top_origin_url_summary	Array of **TopOriginUrlSummary** objects	Detailed data.

Table 4-286 TopOriginUrlSummary

Parameter	Type	Description
origin_url	String	Origin URL name.
value	Long	Return value of a query. Traffic unit: byte.
ratio	Double	Proportion of the traffic (or number of requests) from this origin URL to the total traffic (or number of requests) in this query. The value is accurate to four decimal places.

Status code: default

Table 4-287 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-288 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying top origin URLs of a domain name

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-origin-urls?
&start_time=1577808000000&end_time=1577894400000&domain_name=www.test1.com&stat_type=flux
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListCdnDomainTopOriginUrlSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListCdnDomainTopOriginUrlRequest request = new ListCdnDomainTopOriginUrlRequest();
        try {
            ListCdnDomainTopOriginUrlResponse response = client.listCdnDomainTopOriginUrl(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListCdnDomainTopOriginUrlRequest()
        response = client.list_cdn_domain_top_origin_url(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListCdnDomainTopOriginUrlRequest{}
    response, err := client.ListCdnDomainTopOriginUrl(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.
default	Error response.

Error Codes

See **Error Codes**.

4.3.9 Querying Top IP Address Statistics of a Domain Name

Function

- This API is used to query top IP address statistics of a domain name.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/top-ips

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Table 4-289 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
group_by	No	String	Data grouping mode. This parameter can be set to **domain**. By default, data is not grouped.
stat_type	Yes	String	• Statistics types. Possible values: **flux** (traffic) and **req_num** (total requests).
service_area	No	String	Region. Possible values: **mainland_china** (Chinese mainland, default) and **outside_mainland_china** (outside the Chinese mainland).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
include_ratio	No	Boolean	Whether the percentage data is included. The default value is **false**.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-290 Response body parameters

Parameter	Type	Description
top_ip_summary	Array of **TopIpSummary** objects	Detailed data.

Table 4-291 TopIpSummary

Parameter	Type	Description
ip	String	IP address.
value	Long	Return value of a query. Traffic unit: byte.
ratio	Double	Proportion of the traffic (or number of requests) from this IP address to the total traffic (or number of requests) in this query. The value is accurate to four decimal places.

Status code: default

Table 4-292 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-293 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying top IP address statistics of a domain name

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-ips?
&start_time=1577808000000&end_time=1577894400000&domain_name=www.test1.com&stat_type=flux
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListCdnDomainTopIpsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListCdnDomainTopIpsRequest request = new ListCdnDomainTopIpsRequest();
        try {
            ListCdnDomainTopIpsResponse response = client.listCdnDomainTopIps(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListCdnDomainTopIpsRequest()
        response = client.list_cdn_domain_top_ips(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListCdnDomainTopIpsRequest{}
    response, err := client.ListCdnDomainTopIps(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.
default	Error response.

Error Codes

See **Error Codes**.

4.3.10 Querying Top User Agent Statistics of a Domain Name

Function

- This API is used to query top user agent statistics of a domain name.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/statistics/top-uas

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Table 4-294 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. • If the value of **interval** is **300**, set this parameter to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If the value of **interval** is **3600**, set this parameter to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If the value of **interval** is **86400**, set this parameter to 00:00:00 (GTM+08:00), for example, **1631376000000** (2021-09-12 00:00:00).

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Use commas (,) to separate multiple domain names, for example, **www.test1.com,www.test2.com**. **all** indicates that all domain names are queried. If no data is available for a domain name within the query period, no information about the domain name is returned.
group_by	No	String	Data grouping mode. This parameter can be set to **domain**. By default, data is not grouped.
stat_type	Yes	String	• Statistics types. Possible values: **flux** (traffic) and **req_num** (total requests).
service_area	No	String	Region. Possible values: **mainland_china** (Chinese mainland, default) and **outside_mainland_china** (outside the Chinese mainland).
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
include_ratio	No	Boolean	Whether the percentage data is included. The default value is **false**.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-295 Response body parameters

Parameter	Type	Description
top_ua_summary	Array of **TopUaSummary** objects	Detailed data.

Table 4-296 TopUaSummary

Parameter	Type	Description
ua	String	User agent value.
value	Long	Return value of a query. Traffic unit: byte.
ratio	Double	Proportion of the traffic (or number of requests) from this user agent to the total traffic (or number of requests) in this query. The value is accurate to four decimal places.

Status code: default

Table 4-297 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-298 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying top user agent statistics of a domain name

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-uas?
&start_time=1577808000000&end_time=1577894400000&domain_name=www.test1.com&stat_type=flux
```

Example Responses

None

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListCdnDomainTopUasSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListCdnDomainTopUasRequest request = new ListCdnDomainTopUasRequest();
        try {
            ListCdnDomainTopUasResponse response = client.listCdnDomainTopUas(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListCdnDomainTopUasRequest()
        response = client.list_cdn_domain_top_uas(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListCdnDomainTopUasRequest{}
    response, err := client.ListCdnDomainTopUas(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response.
default	Error response.

Error Codes

See **Error Codes**.

4.3.11 Querying Operations Report Subscription Tasks by Page

Function

query subscription task

Calling Method

For details, see **Calling APIs**.

URI

GET /v1/cdn/statistics/subscription-tasks

Table 4-299 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	• Number of items displayed on each page. If this parameter is left empty or set to **0**, the default value **5** is used.
offset	No	Integer	Offset, which is the position where the query starts. The value must be greater than or equal to **0** (default value).

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-300 Response body parameters

Parameter	Type	Description
total	Integer	Total number of subscription tasks.
data	Array of **SubscriptionTask** objects	Subscription task.

Table 4-301 SubscriptionTask

Parameter	Type	Description
id	Long	Subscription task ID.
create_time	Long	Creation time.
update_time	Long	Last update time.
name	String	• Name of a subscription task. • The value contains up to 32 characters, including letters and hyphens (-).
period_type	Integer	• Type of the subscription task. Possible values: • **0**: daily report. • **1**: weekly report. • **2**: monthly report.
emails	String	Email addresses for receiving operations reports. Email addresses are separated by commas (,).
domain_name	String	List of subscribed domain names, which are separated by commas (.). If this parameter is set to **all**, operations reports are subscribed to for all domain names under the account.

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Parameter	Type	Description
report_type	String	• Operations report type. Multiple types are separated by commas (,). • **0**: access area distribution. • **1**: country distribution. • **2**: carrier distribution. • **3**: domain name rankings (sorted by traffic). • **4**: popular URLs (sorted by traffic). • **5**: popular URLs (sorted by the number of requests). • **6**: popular referers (sorted by traffic). • **7**: popular referers (sorted by the number of requests). • **10**: popular origin URLs (sorted by traffic). • **11**: popular origin URLs (sorted by the number of requests). • **13**: popular UAs (sorted by traffic). • **14**: popular UAs (sorted by the number of requests).

Status code: default

Table 4-302 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-303 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

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Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ListSubscriptionTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ListSubscriptionTasksRequest request = new ListSubscriptionTasksRequest();
        try {
            ListSubscriptionTasksResponse response = client.listSubscriptionTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
```

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```
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListSubscriptionTasksRequest()
        response = client.list_subscription_tasks(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListSubscriptionTasksRequest{}
    response, err := client.ListSubscriptionTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

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More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.3.12 Creating an Operations Report Subscription Task

Function

create subscription task

Calling Method

For details, see **Calling APIs**.

URI

POST /v1/cdn/statistics/subscription-tasks

Request Parameters

Table 4-304 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	• Name of a subscription task. • The value contains up to 32 characters, including letters and hyphens (-).
period_type	No	Integer	• Type of the subscription task. Possible values: • **0**: daily report. • **1**: weekly report. • **2**: monthly report.

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Parameter	Mandatory	Type	Description
emails	No	String	Email addresses for receiving operations reports. Email addresses are separated by commas (,).
domain_name	No	String	List of subscribed domain names, which are separated by commas (.). If this parameter is set to **all**, operations reports are subscribed to for all domain names under the account.
report_type	No	String	• Operations report type. Multiple types are separated by commas (,). • **0**: access area distribution. • **1**: country distribution. • **2**: carrier distribution. • **3**: domain name rankings (sorted by traffic). • **4**: popular URLs (sorted by traffic). • **5**: popular URLs (sorted by the number of requests). • **6**: popular referers (sorted by traffic). • **7**: popular referers (sorted by the number of requests). • **10**: popular origin URLs (sorted by traffic). • **11**: popular origin URLs (sorted by the number of requests). • **13**: popular UAs (sorted by traffic). • **14**: popular UAs (sorted by the number of requests).

Response Parameters

Status code: 204

Success response

Status code: default

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Table 4-305 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-306 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class CreateSubscriptionTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
```

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```
                .build();
        CreateSubscriptionTaskRequest request = new CreateSubscriptionTaskRequest();
        SubscriptionTaskVo body = new SubscriptionTaskVo();
        request.withBody(body);
        try {
            CreateSubscriptionTaskResponse response = client.createSubscriptionTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateSubscriptionTaskRequest()
        request.body = SubscriptionTaskVo(
        )
        response = client.create_subscription_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
```

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```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateSubscriptionTaskRequest{}
    request.Body = &model.SubscriptionTaskVo{
    }
    response, err := client.CreateSubscriptionTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.3.13 Modifying an Operations Report Subscription Task

Function

modify subscription task

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Calling Method

For details, see **Calling APIs**.

URI

PUT /v1/cdn/statistics/subscription-tasks/{id}

Table 4-307 Path Parameters

Parameter	Mandatory	Type	Description
id	Yes	Long	Subscription task ID.

Request Parameters

Table 4-308 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	• Name of a subscription task. • The value contains up to 32 characters, including letters and hyphens (-).
period_type	No	Integer	• Type of the subscription task. Possible values: • **0**: daily report. • **1**: weekly report. • **2**: monthly report.
emails	No	String	Email addresses for receiving operations reports. Email addresses are separated by commas (,).
domain_name	No	String	List of subscribed domain names, which are separated by commas (.). If this parameter is set to **all**, operations reports are subscribed to for all domain names under the account.

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Parameter	Mandatory	Type	Description
report_type	No	String	• Operations report type. Multiple types are separated by commas (,). • **0**: access area distribution. • **1**: country distribution. • **2**: carrier distribution. • **3**: domain name rankings (sorted by traffic). • **4**: popular URLs (sorted by traffic). • **5**: popular URLs (sorted by the number of requests). • **6**: popular referers (sorted by traffic). • **7**: popular referers (sorted by the number of requests). • **10**: popular origin URLs (sorted by traffic). • **11**: popular origin URLs (sorted by the number of requests). • **13**: popular UAs (sorted by traffic). • **14**: popular UAs (sorted by the number of requests).

Response Parameters

Status code: 200

Success response

Status code: default

Table 4-309 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

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Table 4-310 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class UpdateSubscriptionTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateSubscriptionTaskRequest request = new UpdateSubscriptionTaskRequest();
        request.withId({id}L);
        SubscriptionTaskVo body = new SubscriptionTaskVo();
        request.withBody(body);
        try {
            UpdateSubscriptionTaskResponse response = client.updateSubscriptionTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
```

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```
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateSubscriptionTaskRequest()
        request.id = {id}
        request.body = SubscriptionTaskVo(
        )
        response = client.update_subscription_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateSubscriptionTaskRequest{}
    request.Id = int64({id})
    request.Body = &model.SubscriptionTaskVo{
    }
    response, err := client.UpdateSubscriptionTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.3.14 Deleting an Operations Report Subscription Task

Function

delete subscription task

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1/cdn/statistics/subscription-tasks/{id}

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Table 4-311 Path Parameters

Parameter	Mandatory	Type	Description
id	Yes	Long	Subscription task ID.

Request Parameters

None

Response Parameters

Status code: 204

Success response

Status code: default

Table 4-312 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 4-313 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

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```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DeleteSubscriptionTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteSubscriptionTaskRequest request = new DeleteSubscriptionTaskRequest();
        request.withId({id}L);
        try {
            DeleteSubscriptionTaskResponse response = client.deleteSubscriptionTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
```

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```
        .build()

    try:
        request = DeleteSubscriptionTaskRequest()
        request.id = {id}
        response = client.delete_subscription_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteSubscriptionTaskRequest{}
    request.Id = int64({id})
    response, err := client.DeleteSubscriptionTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
204	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.4 Billing Management

4.4.1 Querying the Billing Option

Function

- This API is used to query the billing option.
- The service area can only be **mainland_china** (Chinese mainland, default value) or **outside_mainland_china** (outside the Chinese mainland).
- The billing option status can be **active** (effective, default value) or **upcoming** (to take effect).
- The acceleration type can only be **base** (basic acceleration).
- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/charge/charge-modes

Table 4-314 Query Parameters

Parameter	Mandatory	Type	Description
product_type	Yes	String	Acceleration type. The value is **base** (basic acceleration).
status	No	String	Billing option status. The options are **active** (effective, default value) and **upcoming** (to take effect).

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Parameter	Mandatory	Type	Description
service_area	No	String	Service area. The options are **mainland_china** (Chinese mainland, default value) and **outside_mainland_china** (outside the Chinese mainland).

Request Parameters

None

Response Parameters

Status code: 200

Table 4-315 Response body parameters

Parameter	Type	Description
result	Array of Map<String,Object> objects	Result of querying the billing option.

Status code: 400

Table 4-316 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-317 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Querying the billing option

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/charge/charge-modes?
&product_type=base&status=active&service_area=mainland_china
```

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Example Responses

Status code: 200

Success response

Querying the billing option

```
{
  "result" : {
    "charge_mode" : "flux",
    "effective_time" : 1666238400000,
    "service_area" : "mainland_china",
    "status" : "active",
    "product_type" : "base"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowChargeModesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowChargeModesRequest request = new ShowChargeModesRequest();
        try {
            ShowChargeModesResponse response = client.showChargeModes(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
```

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```
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowChargeModesRequest()
        response = client.show_charge_modes(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
```

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```
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowChargeModesRequest{}
    response, err := client.ShowChargeModes(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
400	Error response

Error Codes

See **Error Codes**.

4.4.2 Configuring the Billing Option

Function

- This API is used to configure the billing option.
- The service area can only be **mainland_china** (Chinese mainland).
- The billing option can be **flux** (traffic-based billing) or **bw** (bandwidth-based billing, only for V2 and higher customers).
- The acceleration type can only be **base** (basic acceleration).
- A single tenant can call this API 10 times per minute.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/charge/charge-modes

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Request Parameters

Table 4-318 Request body parameters

Parameter	Mandatory	Type	Description
charge_mode	Yes	String	Billing option. The value can be **flux** (traffic-based billing) or **bw** (bandwidth-based billing, only for V2 and higher customers).
product_type	Yes	String	Product mode. Only **base** (basic acceleration) is supported.
service_area	Yes	String	Service area. Only **mainland_china** (Chinese mainland) is supported.

Response Parameters

Status code: 200

Table 4-319 Response body parameters

Parameter	Type	Description
charge_mode	String	Billing option of the account.
product_type	String	Service type.
effective_time	Long	Effective time of the option.
create_time	Long	Creation time.
service_area	String	Area of this option.
status	String	Status. The status is **active** when the option is enabled for the first time and is changed to **upcoming** when the option is enabled again.

Status code: 400

Table 4-320 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

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Table 4-321 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

Configuring the billing option

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/charge/charge-modes

{
  "charge_mode" : "flux",
  "product_type" : "base",
  "service_area" : "mainland_china"
}
```

Example Responses

Status code: 200

Success response

Configuring the billing option

```
{
  "charge_mode" : "flux",
  "effective_time" : 1666238400000,
  "create_time" : 1664596800000,
  "service_area" : "mainland_china",
  "status" : "active",
  "product_type" : "base"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Configuring the billing option

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class SetChargeModesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

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```
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        SetChargeModesRequest request = new SetChargeModesRequest();
        SetChargeModesBody body = new SetChargeModesBody();
        body.withServiceArea("mainland_china");
        body.withProductType("base");
        body.withChargeMode("flux");
        request.withBody(body);
        try {
            SetChargeModesResponse response = client.setChargeModes(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Configuring the billing option

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = SetChargeModesRequest()
        request.body = SetChargeModesBody(
```

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```
            service_area="mainland_china",
            product_type="base",
            charge_mode="flux"
        )
        response = client.set_charge_modes(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Configuring the billing option

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.SetChargeModesRequest{}
    request.Body = &model.SetChargeModesBody{
        ServiceArea: "mainland_china",
        ProductType: "base",
        ChargeMode: "flux",
    }
    response, err := client.SetChargeModes(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

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Status Codes

Status Code	Description
200	Success response
400	Error response

Error Codes

See **Error Codes**.

4.5 Quotas

4.5.1 Querying Quotas

Function

This API is used to query the CDN service quotas for your account, including the quotas of domain names, files and directories to be purged, and files to be prefetched.

- A single tenant can call this API five times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/quota

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Request Parameters

Table 4-322 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Response Parameters

Status code: 200

Table 4-323 Response body parameters

Parameter	Type	Description
quotas	Array of **Quotas** objects	Quota array.

Table 4-324 Quotas

Parameter	Type	Description
quota_limit	Integer	Quota.
type	String	Quota type.
used	Integer	Used amount of the quota.
user_domain_id	String	Domain ID of the domain name's owner.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/quota
```

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Example Responses

Status code: 200

OK

```
{
  "quotas" : [ {
    "quota_limit" : 2000,
    "type" : "file_refresh",
    "used" : 0,
    "user_domain_id" : "0b672**********ae0"
  }, {
    "quota_limit" : 2000,
    "type" : "dir_refresh",
    "used" : 0,
    "user_domain_id" : "0b672**********ae0"
  }, {
    "quota_limit" : 1000,
    "type" : "preheat",
    "used" : 0,
    "user_domain_id" : "0b672**********ae0"
  }, {
    "quota_limit" : 100,
    "type" : "domain",
    "used" : 4,
    "user_domain_id" : "0b672**********ae0"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowQuotaSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
```

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```
        ShowQuotaRequest request = new ShowQuotaRequest();
        try {
            ShowQuotaResponse response = client.showQuota(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowQuotaRequest()
        response = client.show_quota(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

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```
variables and decrypted during use to ensure security.
   // In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
   ak := os.Getenv("CLOUD_SDK_AK")
   sk := os.Getenv("CLOUD_SDK_SK")

   auth := global.NewCredentialsBuilder().
      WithAk(ak).
      WithSk(sk).
      Build()

   client := cdn.NewCdnClient(
      cdn.CdnClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         Build())

   request := &model.ShowQuotaRequest{}
   response, err := client.ShowQuota(request)
   if err == nil {
      fmt.Printf("%+v\n", response)
   } else {
      fmt.Println(err)
   }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.6 Tenant Configuration

4.6.1 Modifying the Tenant Configuration

Function

This API is used to modify the tenant configuration. Currently, it allows you to enable OBS and SCM authorization.

Calling Method

For details, see **Calling APIs**.

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URI

PUT /v1.0/cdn/configuration/account-configs

Request Parameters

Table 4-325 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-326 Request body parameters

Parameter	Mandatory	Type	Description
obs_agency_status	No	String	**Definition** OBS authorization status. Enable it when an OBS private bucket is used as the origin server. **Constraints** N/A **Range** The value can only be **on**, indicating that OBS authorization is enabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
scm_agency_status	No	String	**Definition** SCM authorization status. Enable it when an SCM certificate is used to configure HTTPS. **Constraints** N/A **Range** The value can only be **on**, indicating that SCM authorization is enabled. **Default Value** N/A

Response Parameters

Status code: 204

Request succeeded.

None

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/account-configs

{
  "obs_agency_status" : "on",
  "scm_agency_status" : "on"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Request succeeded.

Error Codes

See **Error Codes**.

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4.7 Log Management

4.7.1 Querying Logs

Function

This API is used to query the log download link. Logs generated within 30 days can be queried. This API allows up to 200 calls per second, with a maximum of 20 calls per user. Exceeding the limits will result in throttling.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/logs

Table 4-327 Query Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name to be queried, for example, **www.test1.com**.
start_time	No	Long	Query start time. The value is a timestamp in milliseconds at the top of an hour. If this parameter is left empty, 00:00 of the current day is used by default.
end_time	No	Long	Query end time (excluding the end time point). The value is a timestamp in milliseconds at the top of an hour. The maximum time span between the start time and end time is 30 days. If this parameter is left empty, the start time plus one day is used by default.
page_size	No	Integer	Maximum number of records on a page. The value ranges from 1 to 10,000. The default value is **10**.
page_number	No	Integer	Number of the page to be queried. The value ranges from 1 to 65,535. The default value is **1**.

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Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 4-328 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 4-329 Response body parameters

Parameter	Type	Description
total	Integer	Total number of records.
logs	Array of **LogObject** objects	Log list.

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Table 4-330 LogObject

Parameter	Type	Description
domain_name	String	Domain name.
start_time	Long	Query start time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
end_time	Long	Query end time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
name	String	Log file name.
size	Long	File size, in bytes.
link	String	Download link.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/logs?
start_time=1502380500000&end_time=1502384100000&domain_name=www.example.com&page_size=10&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "logs" : [ {
    "domain_name" : "www.example.com",
    "start_time" : 1498838400000,
    "end_time" : 1502380500000,
    "name" : "www.xxxx.com-2017080315",
    "link" : "www.xxxx.web",
    "size" : 4096
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;
```

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```
public class ShowLogsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowLogsRequest request = new ShowLogsRequest();
        try {
            ShowLogsResponse response = client.showLogs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowLogsRequest()
        response = client.show_logs(request)
        print(response)
```

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```
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowLogsRequest{}
    response, err := client.ShowLogs(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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4.8 Template Configuration

4.8.1 Creating a Domain Name Template

Function

This API is used to create a domain name template.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/templates

Request Parameters

Table 4-331 Request body parameters

Parameter	Mandatory	Type	Description
tml_name	Yes	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A
remark	No	String	**Definition** Domain name template description. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
configs	Yes	**TemplateConfigs** object	**Definition** Domain name template configuration. **Constraints** N/A

Table 4-332 TemplateConfigs

Parameter	Mandatory	Type	Description
http_response_header	No	Array of **HttpResponseHeader** objects	HTTP response header settings
cache_rules	No	Array of **CacheRules** objects	
origin_follow302_status	No	String	**Definition** Whether to enable redirect from origin. If the origin server uses 301/302 redirection, CDN PoPs redirect to the address specified in a 301/302 response, cache the resource, and return it to the user. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
compress	No	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A

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Parameter	Mandatory	Type	Description
origin_range_status	No	String	**Definition** Range requests for origin pull. A range request allows the origin server to send data of a specific range to a CDN PoP based on the range information in the HTTP request header. **Constraints** To enable range requests for origin pull, the origin server must support range requests, that is, requests with the **Range** field in the headers. Otherwise, origin pull may fail. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
ip_filter	No	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	No	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A
user_agent_filter	No	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A

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Parameter	Mandatory	Type	Description
flow_limit_strategy	No	Array of **FlowLimitStrategy** objects	**Definition** Usage cap. When the actual data exceeds the cap you set, CDN blocks the domain name to prevent excess billing caused by traffic theft or attacks. **NOTE** Blocking may be delayed by about 10 minutes after the monitored data reaches the cap. **Constraints** N/A

Table 4-333 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-334 CacheRules

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_value	No	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
ttl	No	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Yes	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	No	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Mandatory	Type	Description
url_parameter_type	No	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	No	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-335 Compress

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Smart compression status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
type	No	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). • **gzip**: gzip compression. • **br**: Brotli compression. **Default Value** N/A

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Parameter	Mandatory	Type	Description
file_type	No	String	**Definition** Types of files to compress. **Constraints** N/A **Range** • Enter up to 2,000 characters. • Enter up to 50 characters for each type. • Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.
compress_min_length	No	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A

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Parameter	Mandatory	Type	Description
compress_max_length	No	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A

Table 4-336 IpFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** IP ACL type. **Constraints** N/A **Range** • **off**: The IP ACL is disabled. • **black**: IP address blacklist. • **white**: IP address whitelist. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

Table 4-337 RefererConfig

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A
include_empty	No	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

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Table 4-338 UserAgentFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A
value	No	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,/'#!@$^&+=~?"[]{}:% **Default Value** N/A

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Parameter	Mandatory	Type	Description
include_empty	No	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.
ua_list	No	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

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Table 4-339 FlowLimitStrategy

Parameter	Mandatory	Type	Description
strategy_type	No	String	**Definition** Measurement type. **Constraints** N/A **Range** • **instant**: instantaneous usage. • **hour**: hourly cumulative usage. • **day**: daily cumulative usage. **Default Value** N/A
item_type	No	String	**Definition** Usage cap type. **Constraints** N/A **Range** • **bandwidth**: bandwidth cap, in bit/s. • **traffic**: traffic cap, in bits. **Default Value** N/A
limit_value	No	String	**Definition** Usage cap. When the usage of a domain name reaches this cap, CDN will be disabled for it. **Constraints** N/A **Range** The value must be a positive integer. **Default Value** N/A

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Parameter	Mandatory	Type	Description
alarm_percent_threshold	No	String	**Definition** Usage alarm threshold. When the domain name usage reaches this threshold, an alarm is sent. **Constraints** N/A **Range** 1 to 90. **Default Value** N/A
ban_time	No	String	**Definition** Capping period. **Constraints** Setting **ban_time** to **0** indicates that the domain name is not automatically unblocked. You need to manually unblock it. **Range** • **0**: Block the domain name until you manually unblock it. • **60**: 60 minutes (1 hour). • **720**: 720 minutes (12 hours). • **1440**: 1,440 minutes (24 hours). • **4320**: 4,320 minutes (3 days). **Default Value** N/A

Response Parameters

Status code: 204

Success response

Status code: default

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Table 4-340 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-341 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/templates

{
  "tml_name" : "example",
  "remark" : "example remark",
  "configs" : {
    "http_response_header" : [ {
      "action" : "set",
      "name" : "Content-Disposition",
      "value" : "example"
    } ]
  }
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateDomainTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

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```
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateDomainTemplateRequest request = new CreateDomainTemplateRequest();
        CreateTemplateRequestBody body = new CreateTemplateRequestBody();
        List<HttpResponseHeader> listConfigsHttpResponseHeader = new ArrayList<>();
        listConfigsHttpResponseHeader.add(
            new HttpResponseHeader()
                .withName("Content-Disposition")
                .withValue("example")
                .withAction("set")
        );
        TemplateConfigs configsbody = new TemplateConfigs();
        configsbody.withHttpResponseHeader(listConfigsHttpResponseHeader);
        body.withConfigs(configsbody);
        body.withRemark("example remark");
        body.withTmlName("example");
        request.withBody(body);
        try {
            CreateDomainTemplateResponse response = client.createDomainTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
```

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```
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateDomainTemplateRequest()
        listHttpResponseHeaderConfigs = [
            HttpResponseHeader(
                name="Content-Disposition",
                value="example",
                action="set"
            )
        ]
        configsbody = TemplateConfigs(
            http_response_header=listHttpResponseHeaderConfigs
        )
        request.body = CreateTemplateRequestBody(
            configs=configsbody,
            remark="example remark",
            tml_name="example"
        )
        response = client.create_domain_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateDomainTemplateRequest{}
    valueHttpResponseHeader:= "example"
    var listHttpResponseHeaderConfigs = []model.HttpResponseHeader{
        {
            Name: "Content-Disposition",
            Value: &valueHttpResponseHeader,
            Action: "set",
        },
    }
```

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```
    configsbody := &model.TemplateConfigs{
        HttpResponseHeader: &listHttpResponseHeaderConfigs,
    }
    remarkCreateTemplateRequestBody:= "example remark"
    request.Body = &model.CreateTemplateRequestBody{
        Configs: configsbody,
        Remark: &remarkCreateTemplateRequestBody,
        TmlName: "example",
    }
    response, err := client.CreateDomainTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.8.2 Listing Domain Name Templates

Function

This API is used to list domain name templates.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/templates

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Table 4-342 Query Parameters

Parameter	Mandatory	Type	Description
tml_name	No	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A
tml_id	No	String	**Definition** Domain name template ID, which can be obtained using this API. **Constraints** N/A **Range** N/A **Default Value** N/A
tml_type	No	Integer	**Definition** Domain name template type. **Constraints** N/A **Range** • **1**: system-preset. • **2**: tenant-defined. **Default Value** N/A

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Parameter	Mandatory	Type	Description
limit	No	String	**Definition** Number of records displayed on each page. **Constraints** N/A **Range** 1 to 10,000. **Default Value** 30
offset	No	String	**Definition** Page number to be queried. **Constraints** N/A **Range** 0 to 65,535. **Default Value** 0

Request Parameters

None

Response Parameters

Status code: 200

Table 4-343 Response body parameters

Parameter	Type	Description
total	Integer	**Definition** Total number of domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Type	Description
temlates	Array of **TemplateItem** objects	**Definition** Template configuration. **Constraints** N/A

Table 4-344 TemplateItem

Parameter	Type	Description
account_id	String	**Definition** Account ID. **Constraints** N/A **Range** N/A **Default Value** N/A
tml_name	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A
remark	String	**Definition** Domain name template description. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Type	Description
tml_id	String	**Definition** Domain name template ID. **Constraints** N/A **Range** N/A **Default Value** N/A
type	Integer	**Definition** Domain name template type. **Constraints** N/A **Range** • **1**: system-preset. • **2**: tenant-defined. **Default Value** N/A
create_time	Integer	**Definition** Creation time. **Constraints** N/A **Range** N/A **Default Value** N/A
modify_time	Integer	**Definition** Modification time. **Constraints** N/A **Range** N/A **Default Value** N/A
configs	**TemplateConfigs** object	**Definition** Domain name template configuration. **Constraints** N/A

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Table 4-345 TemplateConfigs

Parameter	Type	Description
http_response_header	Array of **HttpResponseHeader** objects	HTTP response header settings
cache_rules	Array of **CacheRules** objects	
origin_follow302_status	String	**Definition** Whether to enable redirect from origin. If the origin server uses 301/302 redirection, CDN PoPs redirect to the address specified in a 301/302 response, cache the resource, and return it to the user. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
compress	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A

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Parameter	Type	Description
origin_range_status	String	**Definition** Range requests for origin pull. A range request allows the origin server to send data of a specific range to a CDN PoP based on the range information in the HTTP request header. **Constraints** To enable range requests for origin pull, the origin server must support range requests, that is, requests with the **Range** field in the headers. Otherwise, origin pull may fail. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
ip_filter	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A
user_agent_filter	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A

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Parameter	Type	Description
flow_limit_strategy	Array of FlowLimitStrategy objects	**Definition** Usage cap. When the actual data exceeds the cap you set, CDN blocks the domain name to prevent excess billing caused by traffic theft or attacks. **NOTE** Blocking may be delayed by about 10 minutes after the monitored data reaches the cap. **Constraints** N/A

Table 4-346 HttpResponseHeader

Parameter	Type	Description
name	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A
value	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A

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Parameter	Type	Description
action	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

Table 4-347 CacheRules

Parameter	Type	Description
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
ttl	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Type	Description
follow_origin	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Type	Description
url_parameter_type	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-348 Compress

Parameter	Type	Description
status	String	**Definition** Smart compression status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
type	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). • **gzip**: gzip compression. • **br**: Brotli compression. **Default Value** N/A
file_type	String	**Definition** Types of files to compress. **Constraints** N/A **Range** • Enter up to 2,000 characters. • Enter up to 50 characters for each type. • Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.

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Parameter	Type	Description
compress_min_length	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A
compress_max_length	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A

Table 4-349 IpFilter

Parameter	Type	Description
type	String	**Definition** IP ACL type. **Constraints** N/A **Range** ● **off**: The IP ACL is disabled. ● **black**: IP address blacklist. ● **white**: IP address whitelist. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

Table 4-350 RefererConfig

Parameter	Type	Description
type	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A
include_empty	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

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Table 4-351 UserAgentFilter

Parameter	Type	Description
type	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A
value	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,/'#!@$^&+=~?"[]{}:% **Default Value** N/A

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Parameter	Type	Description
include_empty	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.
ua_list	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

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Table 4-352 FlowLimitStrategy

Parameter	Type	Description
strategy_type	String	**Definition** Measurement type. **Constraints** N/A **Range** • **instant**: instantaneous usage. • **hour**: hourly cumulative usage. • **day**: daily cumulative usage. **Default Value** N/A
item_type	String	**Definition** Usage cap type. **Constraints** N/A **Range** • **bandwidth**: bandwidth cap, in bit/s. • **traffic**: traffic cap, in bits. **Default Value** N/A
limit_value	String	**Definition** Usage cap. When the usage of a domain name reaches this cap, CDN will be disabled for it. **Constraints** N/A **Range** The value must be a positive integer. **Default Value** N/A

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Parameter	Type	Description
alarm_percent_threshold	String	**Definition** Usage alarm threshold. When the domain name usage reaches this threshold, an alarm is sent. **Constraints** N/A **Range** 1 to 90. **Default Value** N/A
ban_time	String	**Definition** Capping period. **Constraints** Setting **ban_time** to **0** indicates that the domain name is not automatically unblocked. You need to manually unblock it. **Range** • **0**: Block the domain name until you manually unblock it. • **60**: 60 minutes (1 hour). • **720**: 720 minutes (12 hours). • **1440**: 1,440 minutes (24 hours). • **4320**: 4,320 minutes (3 days). **Default Value** N/A

Status code: default

Table 4-353 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-354 ErrMsg

Parameter	Type	Description
error_code	String	Error code.

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Parameter	Type	Description
error_msg	String	Error message.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/templates?limit=1000&offset=0
```

Example Responses

Status code: 200

Success response

```
{
  "total" : 1,
  "templates" : [ {
    "type" : 2,
    "configs" : {
      "http_response_header" : [ {
        "action" : "set",
        "name" : "Content-Disposition",
        "value" : "example"
      } ]
    },
    "tml_name" : "example",
    "tml_id" : "example********************tmlid",
    "remark" : "this is remark",
    "account_id" : "example****************accountid",
    "create_time" : 1700000000000,
    "modify_time" : 1700000000000
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowDomainTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

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```
        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowDomainTemplateRequest request = new ShowDomainTemplateRequest();
        try {
            ShowDomainTemplateResponse response = client.showDomainTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowDomainTemplateRequest()
        response = client.show_domain_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
```

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```
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDomainTemplateRequest{}
    response, err := client.ShowDomainTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.8.3 Modifying a Domain Name Template

Function

This API is used to modify a domain name template.

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Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/cdn/configuration/templates/{tml_id}

Table 4-355 Path Parameters

Parameter	Mandatory	Type	Description
tml_id	Yes	String	**Definition** Domain name template ID, which can be obtained by calling the API for listing domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-356 Request body parameters

Parameter	Mandatory	Type	Description
tml_name	Yes	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A

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Parameter	Mandatory	Type	Description
remark	No	String	**Definition** Domain name template description. **Constraints** N/A **Range** N/A **Default Value** N/A
configs	Yes	**TemplateConfigs** object	**Definition** Domain name template configuration. **Constraints** N/A

Table 4-357 TemplateConfigs

Parameter	Mandatory	Type	Description
http_response_header	No	Array of **HttpResponseHeader** objects	HTTP response header settings
cache_rules	No	Array of **CacheRules** objects	
origin_follow302_status	No	String	**Definition** Whether to enable redirect from origin. If the origin server uses 301/302 redirection, CDN PoPs redirect to the address specified in a 301/302 response, cache the resource, and return it to the user. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Mandatory	Type	Description
compress	No	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A
origin_range_status	No	String	**Definition** Range requests for origin pull. A range request allows the origin server to send data of a specific range to a CDN PoP based on the range information in the HTTP request header. **Constraints** To enable range requests for origin pull, the origin server must support range requests, that is, requests with the **Range** field in the headers. Otherwise, origin pull may fail. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
ip_filter	No	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	No	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A

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Parameter	Mandatory	Type	Description
user_agent_filter	No	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A
flow_limit_strategy	No	Array of **FlowLimitStrategy** objects	**Definition** Usage cap. When the actual data exceeds the cap you set, CDN blocks the domain name to prevent excess billing caused by traffic theft or attacks. **NOTE** Blocking may be delayed by about 10 minutes after the monitored data reaches the cap. **Constraints** N/A

Table 4-358 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** • Enter 1 to 1,000 characters. • Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> • This parameter is optional when the header is to be deleted. **Default Value** N/A
action	Yes	String	**Definition** Operation type of the HTTP response header. **Constraints** • A response header field can only be deleted or set. • When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** • set • delete **Default Value** N/A

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Table 4-359 CacheRules

Parameter	Mandatory	Type	Description
match_type	Yes	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Mandatory	Type	Description
match_value	No	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
ttl	No	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	Yes	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Yes	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Mandatory	Type	Description
follow_origin	No	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	No	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Mandatory	Type	Description
url_parameter_type	No	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	No	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-360 Compress

Parameter	Mandatory	Type	Description
status	Yes	String	**Definition** Smart compression status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
type	No	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). • **gzip**: gzip compression. • **br**: Brotli compression. **Default Value** N/A

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Parameter	Mandatory	Type	Description
file_type	No	String	**Definition** Types of files to compress. **Constraints** N/A **Range** • Enter up to 2,000 characters. • Enter up to 50 characters for each type. • Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.
compress_min_length	No	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A

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Parameter	Mandatory	Type	Description
compress_max_length	No	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** • 0 MB to 30 MB. The unit is byte. **Default Value** N/A

Table 4-361 IpFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** IP ACL type. **Constraints** N/A **Range** • **off**: The IP ACL is disabled. • **black**: IP address blacklist. • **white**: IP address whitelist. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

Table 4-362 RefererConfig

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A

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Parameter	Mandatory	Type	Description
value	No	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A
include_empty	No	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

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Table 4-363 UserAgentFilter

Parameter	Mandatory	Type	Description
type	Yes	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A
value	No	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,,/'#!@$^&+=~?"[]{}:% **Default Value** N/A

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Parameter	Mandatory	Type	Description
include_empty	No	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.
ua_list	No	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

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Table 4-364 FlowLimitStrategy

Parameter	Mandatory	Type	Description
strategy_type	No	String	**Definition** Measurement type. **Constraints** N/A **Range** • **instant**: instantaneous usage. • **hour**: hourly cumulative usage. • **day**: daily cumulative usage. **Default Value** N/A
item_type	No	String	**Definition** Usage cap type. **Constraints** N/A **Range** • **bandwidth**: bandwidth cap, in bit/s. • **traffic**: traffic cap, in bits. **Default Value** N/A
limit_value	No	String	**Definition** Usage cap. When the usage of a domain name reaches this cap, CDN will be disabled for it. **Constraints** N/A **Range** The value must be a positive integer. **Default Value** N/A

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Parameter	Mandatory	Type	Description
alarm_percent_threshold	No	String	**Definition** Usage alarm threshold. When the domain name usage reaches this threshold, an alarm is sent. **Constraints** N/A **Range** 1 to 90. **Default Value** N/A
ban_time	No	String	**Definition** Capping period. **Constraints** Setting **ban_time** to **0** indicates that the domain name is not automatically unblocked. You need to manually unblock it. **Range** • **0**: Block the domain name until you manually unblock it. • **60**: 60 minutes (1 hour). • **720**: 720 minutes (12 hours). • **1440**: 1,440 minutes (24 hours). • **4320**: 4,320 minutes (3 days). **Default Value** N/A

Response Parameters

Status code: 204

Success response

Status code: default

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Table 4-365 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-366 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/templates/example**********tmlid

{
  "tml_name" : "example",
  "remark" : "example remark",
  "configs" : {
    "http_response_header" : [ {
      "action" : "set",
      "name" : "Content-Disposition",
      "value" : "example"
    } ]
  }
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateDomainTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

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```
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateDomainTemplateRequest request = new UpdateDomainTemplateRequest();
        request.withTmlId("{tml_id}");
        CreateTemplateRequestBody body = new CreateTemplateRequestBody();
        List<HttpResponseHeader> listConfigsHttpResponseHeader = new ArrayList<>();
        listConfigsHttpResponseHeader.add(
            new HttpResponseHeader()
                .withName("Content-Disposition")
                .withValue("example")
                .withAction("set")
        );
        TemplateConfigs configsbody = new TemplateConfigs();
        configsbody.withHttpResponseHeader(listConfigsHttpResponseHeader);
        body.withConfigs(configsbody);
        body.withRemark("example remark");
        body.withTmlName("example");
        request.withBody(body);
        try {
            UpdateDomainTemplateResponse response = client.updateDomainTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
```

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```
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateDomainTemplateRequest()
        request.tml_id = "{tml_id}"
        listHttpResponseHeaderConfigs = [
            HttpResponseHeader(
                name="Content-Disposition",
                value="example",
                action="set"
            )
        ]
        configsbody = TemplateConfigs(
            http_response_header=listHttpResponseHeaderConfigs
        )
        request.body = CreateTemplateRequestBody(
            configs=configsbody,
            remark="example remark",
            tml_name="example"
        )
        response = client.update_domain_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDomainTemplateRequest{}
    request.TmlId = "{tml_id}"
    valueHttpResponseHeader:= "example"
    var listHttpResponseHeaderConfigs = []model.HttpResponseHeader{
        {
            Name: "Content-Disposition",
            Value: &valueHttpResponseHeader,
```

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```
            Action: "set",
        },
    }
    configsbody := &model.TemplateConfigs{
        HttpResponseHeader: &listHttpResponseHeaderConfigs,
    }
    remarkCreateTemplateRequestBody:= "example remark"
    request.Body = &model.CreateTemplateRequestBody{
        Configs: configsbody,
        Remark: &remarkCreateTemplateRequestBody,
        TmlName: "example",
    }
    response, err := client.UpdateDomainTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.8.4 Deleting a Domain Name Template

Function

This API is used to delete a domain name template.

Calling Method

For details, see **Calling APIs**.

URI

DELETE /v1.0/cdn/configuration/templates/{tml_id}

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Table 4-367 Path Parameters

Parameter	Mandatory	Type	Description
tml_id	Yes	String	**Definition** Domain name template ID, which can be obtained by calling the API for listing domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

None

Response Parameters

Status code: 204

Success response

Status code: default

Table 4-368 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-369 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

DELETE https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/templates/example**********tmlid

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Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class DeleteDomainTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        DeleteDomainTemplateRequest request = new DeleteDomainTemplateRequest();
        request.withTmlId("{tml_id}");
        try {
            DeleteDomainTemplateResponse response = client.deleteDomainTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
```

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```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteDomainTemplateRequest()
        request.tml_id = "{tml_id}"
        response = client.delete_domain_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteDomainTemplateRequest{}
    request.TmlId = "{tml_id}"
    response, err := client.DeleteDomainTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
```

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```
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.8.5 Applying a Domain Name Template

Function

This API is used to apply a domain name template.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/configuration/templates/{tml_id}/apply

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Table 4-370 Path Parameters

Parameter	Mandatory	Type	Description
tml_id	Yes	String	**Definition** Domain name template ID, which can be obtained by calling the API for listing domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A

Request Parameters

Table 4-371 Request body parameters

Parameter	Mandatory	Type	Description
resources	No	String	**Definition** Domain name list. Domain names are separated by commas (,). **Constraints** N/A **Range** Up to 50 domain names at a go. **Default Value** N/A

Response Parameters

Status code: 200

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Table 4-372 Response body parameters

Parameter	Type	Description
id	String	**Definition** Application record ID. **Constraints** N/A **Range** N/A **Default Value** N/A
status	String	**Definition** Application status (of the entire task). **Constraints** N/A **Range** • **success**: The template is applied. • **fail**: The template fails to be applied. **Default Value** N/A
detail	Array of **ApplyTmlDetail** objects	**Definition** Template configuration. **Constraints** N/A

Table 4-373 ApplyTmlDetail

Parameter	Type	Description
status	String	**Definition** Application status (for a domain name). **Constraints** N/A **Range** • **success**: The template is applied. • **fail**: The template fails to be applied. **Default Value** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Domain name. **Constraints** N/A **Range** N/A **Default Value** N/A
error_msg	String	**Definition** Error message. **Constraints** N/A **Range** N/A **Default Value** N/A

Status code: default

Table 4-374 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-375 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/templates/example**********tmlid/apply

{
  "resources" : "www.example.com"
}
```

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Example Responses

Status code: 200

Success response

```
{
  "id" : "example********************tmli",
  "status" : "success",
  "detail" : [ {
    "status" : "success",
    "domain_name" : "www.example.com"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ApplyDomainTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ApplyDomainTemplateRequest request = new ApplyDomainTemplateRequest();
        request.withTmlId("{tml_id}");
        TemplateApplyRequestBody body = new TemplateApplyRequestBody();
        body.withResources("www.example.com");
        request.withBody(body);
        try {
            ApplyDomainTemplateResponse response = client.applyDomainTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
```

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```
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ApplyDomainTemplateRequest()
        request.tml_id = "{tml_id}"
        request.body = TemplateApplyRequestBody(
            resources="www.example.com"
        )
        response = client.apply_domain_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
```

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```
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ApplyDomainTemplateRequest{}
    request.TmlId = "{tml_id}"
    resourcesTemplateApplyRequestBody:= "www.example.com"
    request.Body = &model.TemplateApplyRequestBody{
        Resources: &resourcesTemplateApplyRequestBody,
    }
    response, err := client.ApplyDomainTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

4.8.6 Querying Application Records of a Domain Name Template

Function

This API is used to query application records of a domain name template.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/configuration/tml-apply-records

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Table 4-376 Query Parameters

Parameter	Mandatory	Type	Description
tml_id	No	String	**Definition** Domain name template ID, which can be obtained by calling the API for listing domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A
tml_name	No	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A
operator_id	No	String	**Definition** Template application record ID, which can be obtained using this API. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Mandatory	Type	Description
offset	No	Integer	**Definition** Page number to be queried. **Constraints** N/A **Range** 0 to 65,535. **Default Value** 0
limit	No	Integer	**Definition** Number of application records on each page. **Constraints** N/A **Range** 1 to 10,000. **Default Value** 30

Request Parameters

None

Response Parameters

Status code: 200

Table 4-377 Response body parameters

Parameter	Type	Description
total	Integer	**Definition** Total number of domain name templates. **Constraints** N/A **Range** N/A **Default Value** N/A

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Parameter	Type	Description
elements	Array of **ApplyRecord** objects	**Definition** Template application record. **Constraints** N/A

Table 4-378 ApplyRecord

Parameter	Type	Description
status	String	**Definition** Template application result. **Constraints** N/A **Range** • **success**: The template is applied. • **fail**: The template fails to be applied. **Default Value** N/A
operator_id	String	**Definition** Application record ID. **Constraints** N/A **Range** N/A **Default Value** N/A
tml_name	String	**Definition** Domain name template name. **Constraints** N/A **Range** • Enter 1 to 100 characters. • Use only letters, digits, underscores (_), and hyphens (-). **Default Value** N/A

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Parameter	Type	Description
remark	String	**Definition** Domain name template description. **Constraints** N/A **Range** N/A **Default Value** N/A
tml_id	String	**Definition** Domain name template ID. **Constraints** N/A **Range** N/A **Default Value** N/A
apply_time	Integer	**Definition** Time when the domain name template is applied. **Constraints** N/A **Range** N/A **Default Value** N/A
type	Integer	**Definition** Domain name template type. **Constraints** N/A **Range** • **1**: system-preset. • **2**: tenant-defined. **Default Value** N/A

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Parameter	Type	Description
account_id	String	**Definition** Account ID. **Constraints** N/A **Range** N/A **Default Value** N/A
resources	Array of **Resource** objects	**Definition** Template configuration. **Constraints** N/A
configs	**TemplateConfigs** object	**Definition** Domain name template configuration. **Constraints** N/A

Table 4-379 Resource

Parameter	Type	Description
status	String	**Definition** Application status (for a domain name). **Constraints** N/A **Range** • **success**: The template is applied. • **fail**: The template fails to be applied. **Default Value** N/A

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Parameter	Type	Description
domain_name	String	**Definition** Domain name. **Constraints** N/A **Range** N/A **Default Value** N/A
error_msg	String	**Definition** Error message. **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-380 TemplateConfigs

Parameter	Type	Description
http_response_header	Array of **HttpResponseHeader** objects	HTTP response header settings
cache_rules	Array of **CacheRules** objects	

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Parameter	Type	Description
origin_follow302_status	String	**Definition** Whether to enable redirect from origin. If the origin server uses 301/302 redirection, CDN PoPs redirect to the address specified in a 301/302 response, cache the resource, and return it to the user. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
compress	**Compress** object	**Definition** Smart compression. CDN can compress static content on websites by reducing file size. This speeds up file transfer and saves a lot of bandwidth. **Constraints** N/A
origin_range_status	String	**Definition** Range requests for origin pull. A range request allows the origin server to send data of a specific range to a CDN PoP based on the range information in the HTTP request header. **Constraints** To enable range requests for origin pull, the origin server must support range requests, that is, requests with the **Range** field in the headers. Otherwise, origin pull may fail. **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A

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Parameter	Type	Description
ip_filter	**IpFilter** object	**Definition** IP access control list (ACL), which blocks or allows access from specific IP addresses. **Constraints** N/A
referer	**RefererConfig** object	**Definition** Referrer whitelist or whitelist, which identifies and filters user identities to control access. **Constraints** N/A
user_agent_filter	**UserAgentFilter** object	**Definition** User-Agent ACL, which filters out requests from specific proxies. **Constraints** N/A
flow_limit_strategy	Array of **FlowLimitStrategy** objects	**Definition** Usage cap. When the actual data exceeds the cap you set, CDN blocks the domain name to prevent excess billing caused by traffic theft or attacks. **NOTE** Blocking may be delayed by about 10 minutes after the monitored data reaches the cap. **Constraints** N/A

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Table 4-381 HttpResponseHeader

Parameter	Type	Description
name	String	**Definition** Name of an HTTP response header. **Constraints** N/A **Range** ● Enter 1 to 100 characters. ● Use only letters, digits, and hyphens (-). Start with a letter. **Default Value** N/A
value	String	**Definition** Value of the HTTP response header. **Constraints** N/A **Range** ● Enter 1 to 1,000 characters. ● Use only letters, digits, and the following special characters: .-_*#!&+|^~'"/:;,=@?<> ● This parameter is optional when the header is to be deleted. **Default Value** N/A
action	String	**Definition** Operation type of the HTTP response header. **Constraints** ● A response header field can only be deleted or set. ● When **action** is set to **set**, if the header does not exist in the original HTTP response, it is added. If it exists, it is modified. **Range** ● set ● delete **Default Value** N/A

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Table 4-382 CacheRules

Parameter	Type	Description
match_type	String	**Definition** Match type. **Constraints** N/A **Range** • **all**: all files. • **file_extension**: file name extension. • **catalog**: directory. • **full_path**: full path. • **home_page**: homepage. **Default Value** N/A

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Parameter	Type	Description
match_value	String	**Definition** Cache rule match content. **Constraints** • When **match_type** is set to **all**, this parameter is left blank. • When **match_type** is set to **file_extension**, the value of this parameter is a list of up to 100 file types with up to 1,000 characters. A file type starts with a period (.). File types are separated by commas (,) or semicolons (;). Example: **.jpg,.zip,.exe**. • When **match_type** is set to **catalog**, the value of this parameter is a list of up to 20 directories with up to 255 characters. A directory starts with a slash (/). Directories are separated by commas (,) or semicolons (;). Example: **/test/folder01,/test/folder02**. • When **match_type** is set to **full_path**, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, **/test/index.html** or **/test/*.jpg**. /* is not allowed. • When **match_type** is set to **home_page**, this parameter is left blank. **Range** N/A **Default Value** N/A

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Parameter	Type	Description
ttl	Integer	**Definition** TTL of a resource cached on CDN PoPs. **Constraints** Up to 365 days. **Range** N/A **Default Value** 0
ttl_unit	String	**Definition** Unit of the cache TTL. **Constraints** N/A **Range** • **s**: second. • **m**: minute. • **h**: hour. • **d**: day. **Default Value** N/A
priority	Integer	**Definition** Cache rule priority. A larger value indicates a higher priority. **Constraints** The priority of a rule must be unique. **Range** 1 to 100. **Default Value** N/A

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Parameter	Type	Description
follow_origin	String	**Definition** Source of the cache TTL, that is, whether CDN PoPs use the cache TTL set on the origin server or that set in cache rules on CDN. **Constraints** N/A **Range** • **on**: CDN PoPs use the TTL set on the origin server. • **off**: CDN PoPs use the TTL set in cache rules. • **min_ttl**: CDN PoPs use the shorter TTL between the TTL set on the origin server and that in cache rules. **Default Value** off
force_cache	String	**Definition** Forcible cache. Specify whether CDN PoP cache ignores the **no-cache**, **private**, and **no-store** fields in the **Cache-Control** response header sent from the origin server. **Constraints** Forcible cache is used together with cache TTL source. For details about the restrictions and configuration effect, see section "PoP Cache Rules" in the *User Guide* of CDN. **Range** • **on**: enabled. • **off**: disabled. **Default Value** off

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Parameter	Type	Description
url_parameter_type	String	**Definition** URL parameter filtering. **Constraints** N/A **Range** • **del_params**: Ignore specific URL parameters. • **reserve_params**: Retain specific URL parameters. • **ignore_url_params**: Ignore all URL parameters. • **full_url**: Retain all URL parameters. **Default Value** full_url
url_parameter_value	String	**Definition** URL parameters. **Constraints** • Enter up to 30 parameters. • Separate parameters by commas (,) or semicolons (;). • This parameter is mandatory when **url_parameter_type** is set to **del_params** or **reserve_params**. **Range** N/A **Default Value** N/A

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Table 4-383 Compress

Parameter	Type	Description
status	String	**Definition** Smart compression status. **Constraints** N/A **Range** • **on**: enabled. • **off**: disabled. **Default Value** N/A
type	String	**Definition** Smart compression type. **Constraints** If multiple smart compression types are configured, Brotli compression is used first. **Range** Separate smart compression types by commas (,). • **gzip**: gzip compression. • **br**: Brotli compression. **Default Value** N/A
file_type	String	**Definition** Types of files to compress. **Constraints** N/A **Range** • Enter up to 2,000 characters. • Enter up to 50 characters for each type. • Separate types by commas (,). **Default Value** The default value is **.js,.html,.css,.xml,.json,.shtml,.htm** when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.

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Parameter	Type	Description
compress_min_length	Integer	**Definition** Minimum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A
compress_max_length	Integer	**Definition** Maximum size of files to be compressed. **Constraints** CDN compresses files between 0 MB and 30 MB if no specific file size is set. **Range** ● 0 MB to 30 MB. The unit is byte. **Default Value** N/A

Table 4-384 IpFilter

Parameter	Type	Description
type	String	**Definition** IP ACL type. **Constraints** N/A **Range** ● **off**: The IP ACL is disabled. ● **black**: IP address blacklist. ● **white**: IP address whitelist. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** IP ACL. **NOTE** IPv6 is supported. IP addresses and CIDR blocks in the IP address/Subnet mask format are supported. **Constraints** • This parameter is optional when **type** is set to **off**. • Separate rules by commas (,). • Enter up to 500 rules. • Duplicate IP addresses and CIDR blocks will be removed. • Wildcards are not supported, for example, 192.168.0.*. **Range** N/A **Default Value** N/A

Table 4-385 RefererConfig

Parameter	Type	Description
type	String	**Definition** Type of the referer blacklist or whitelist. **Constraints** N/A **Range** • **off**: The referer blacklist/whitelist is disabled. • **black**: referer blacklist. • **white**: referer whitelist. **Default Value** N/A

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Parameter	Type	Description
value	String	**Definition** Domain names or IP addresses. **NOTE** Domain name and IP address can be entered together. Wildcard domain names and domain names with port numbers are supported. **Constraints** • Separate domain names and IP addresses by commas (,). • Enter up to 1,000 domain names and IP addresses. • A port ranges from 1 to 65535. **Range** N/A **Default Value** N/A
include_empty	Boolean	**Definition** Whether blank referers are included. **NOTE** A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. **Constraints** N/A **Range** • **true**: Blank referers are included. • **false**: Blank referers are not included. **Default Value** false

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Table 4-386 UserAgentFilter

Parameter	Type	Description
type	String	**Definition** User-Agent ACL type. **Constraints** N/A **Range** • **off**: The User-Agent ACL is disabled. • **black**: User-Agent blacklist. • **white**: User-Agent whitelist. **Default Value** N/A
value	String	**Definition** User-Agent ACL content. **NOTE** This old parameter will be deprecated recently. Use **ua_list** to set a User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Separate rules by commas (,). **Range** • Enter up to 200 characters for each rule. • Use only letters, digits, spaces, and the following special characters: *.-_();,/'#!@$^&+=~?"[]{}:% **Default Value** N/A

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Parameter	Type	Description
include_empty	Boolean	**Definition** Whether blank user agents are included. **NOTE** A blacklist including blank user agents indicates that requests without any user agents are not allowed to access. A whitelist including blank user agents indicates that requests without any user agents are allowed to access. **Constraints** N/A **Range** **true**: Blank user agents are included. **false**: Blank user agents are not included. **Default Value** • **false** for blacklists. • **true** for whitelists.
ua_list	Array of strings	**Definition** User-Agent ACL. **Constraints** • This parameter is optional when **type** is set to **off**. • Configure up to 50 rules. • Enter up to 200 characters for each rule. • When **ua_list** and **value** are both set, **ua_list** is used.

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Table 4-387 FlowLimitStrategy

Parameter	Type	Description
strategy_type	String	**Definition** Measurement type. **Constraints** N/A **Range** • **instant**: instantaneous usage. • **hour**: hourly cumulative usage. • **day**: daily cumulative usage. **Default Value** N/A
item_type	String	**Definition** Usage cap type. **Constraints** N/A **Range** • **bandwidth**: bandwidth cap, in bit/s. • **traffic**: traffic cap, in bits. **Default Value** N/A
limit_value	String	**Definition** Usage cap. When the usage of a domain name reaches this cap, CDN will be disabled for it. **Constraints** N/A **Range** The value must be a positive integer. **Default Value** N/A

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Parameter	Type	Description
alarm_percent_threshold	String	**Definition** Usage alarm threshold. When the domain name usage reaches this threshold, an alarm is sent. **Constraints** N/A **Range** 1 to 90. **Default Value** N/A
ban_time	String	**Definition** Capping period. **Constraints** Setting **ban_time** to **0** indicates that the domain name is not automatically unblocked. You need to manually unblock it. **Range** • **0**: Block the domain name until you manually unblock it. • **60**: 60 minutes (1 hour). • **720**: 720 minutes (12 hours). • **1440**: 1,440 minutes (24 hours). • **4320**: 4,320 minutes (3 days). **Default Value** N/A

Status code: default

Table 4-388 Response body parameters

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

Table 4-389 ErrMsg

Parameter	Type	Description
error_code	String	Error code.

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Parameter	Type	Description
error_msg	String	Error message.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/configuration/tml-apply-records?limit=1000&offset=0
```

Example Responses

Status code: 200

Success response

```
{
  "total" : 1,
  "elements" : [ {
    "resources" : [ {
      "status" : "success",
      "domain_name" : "www.example.com",
      "error_msg" : ""
    } ],
    "type" : 2,
    "configs" : {
      "http_response_header" : [ {
        "action" : "set",
        "name" : "Content-Disposition",
        "value" : "example"
      } ]
    },
    "status" : "success",
    "tml_name" : "example",
    "tml_id" : "example********************tmlid",
    "operator_id" : "example**********************tmlid",
    "account_id" : "example****************accountid",
    "apply_time" : 1700000000000
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowAppliedTemplateRecordSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
```

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```
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowAppliedTemplateRecordRequest request = new ShowAppliedTemplateRecordRequest();
        try {
            ShowAppliedTemplateRecordResponse response = client.showAppliedTemplateRecord(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowAppliedTemplateRecordRequest()
        response = client.show_applied_template_record(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

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Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowAppliedTemplateRecordRequest{}
    response, err := client.ShowAppliedTemplateRecord(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

Error Codes

See **Error Codes**.

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4.9 Cache Purge and Prefetch

4.9.1 Creating a Cache Purge Task

Function

This API is used to create a cache purge task.

- A single tenant can call this API 30 times per second.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/content/refresh-tasks

Table 4-390 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	**Definition** Enterprise project ID. Obtain the enterprise project ID by calling the ListEnterpriseProject API of EPS. **Constraints** This parameter indicates the ID of the enterprise project to which the resource to be queried belongs. It is valid only when the enterprise project function is enabled. The value **all** indicates all projects. **NOTE** This parameter is mandatory when you use an IAM user to call this API. **Range** N/A **Default Value** N/A

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Request Parameters

Table 4-391 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	**Definition** User token, which can be obtained by calling the IAM API (value of **X-Subject-Token** in the response header). **Constraints** N/A **Range** N/A **Default Value** N/A

Table 4-392 Request body parameters

Parameter	Mandatory	Type	Description
refresh_task	Yes	**RefreshTaskRequestBody** object	Cache purge settings.

Table 4-393 RefreshTaskRequestBody

Parameter	Mandatory	Type	Description
type	No	String	Type of cached content to be purged. Possible values: **file** and **directory**. Default value: **file**.
mode	No	String	Directory purge mode. Possible values: **all** (refresh all resources in the directory) and **detect_modify_refresh** (refresh changed resources in the directory). The default value is **all**.

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Parameter	Mandatory	Type	Description
zh_url_encode	No	Boolean	Whether to encode Chinese characters in URLs before cache purge. Possible values: **false** (disabled, default value) and **true** (enabled). After this function is enabled, cache is purged only for transcoded URLs.
urls	Yes	Array of strings	A URL must contain **http://** or **https://**. A URL can contain up to 4,096 characters. Enter up to 1,000 URLs or 100 directories and separate them by commas (,), for example. **"url1", "url2"**. **NOTE** • If a URL contains Chinese characters, refresh both this URL (**zh_url_encode** disabled) and its encoded URL (**zh_url_encode** enabled). • If a URL contains spaces, escape spaces in the URL and disable **URL Encode**.

Response Parameters

Status code: 200

Table 4-394 Response body parameters

Parameter	Type	Description
refresh_task	String	Task ID.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/content/refresh-tasks?enterprise_project_id=0

{
  "refresh_task" : {
    "type" : "file",
    "urls" : [ "https://www.bxxx/1.txt", "http://www.bxxx/2.txt" ]
  }
}
```

Example Responses

Status code: 200

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OK

```
{
  "refresh_task" : "7620242"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateRefreshTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateRefreshTasksRequest request = new CreateRefreshTasksRequest();
        RefreshTaskRequest body = new RefreshTaskRequest();
        List<String> listRefreshTaskUrls = new ArrayList<>();
        listRefreshTaskUrls.add("https://www.bxxx/1.txt");
        listRefreshTaskUrls.add("http://www.bxxx/2.txt");
        RefreshTaskRequestBody refreshTaskbody = new RefreshTaskRequestBody();
        refreshTaskbody.withType(RefreshTaskRequestBody.TypeEnum.fromValue("file"))
            .withUrls(listRefreshTaskUrls);
        body.withRefreshTask(refreshTaskbody);
        request.withBody(body);
        try {
            CreateRefreshTasksResponse response = client.createRefreshTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
```

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```
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateRefreshTasksRequest()
        listUrlsRefreshTask = [
            "https://www.bxxx/1.txt",
            "http://www.bxxx/2.txt"
        ]
        refreshTaskbody = RefreshTaskRequestBody(
            type="file",
            urls=listUrlsRefreshTask
        )
        request.body = RefreshTaskRequest(
            refresh_task=refreshTaskbody
        )
        response = client.create_refresh_tasks(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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```
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateRefreshTasksRequest{}
    var listUrlsRefreshTask = []string{
        "https://www.bxxx/1.txt",
        "http://www.bxxx/2.txt",
    }
    typeRefreshTask:= model.GetRefreshTaskRequestBodyTypeEnum().FILE
    refreshTaskbody := &model.RefreshTaskRequestBody{
        Type: &typeRefreshTask,
        Urls: listUrlsRefreshTask,
    }
    request.Body = &model.RefreshTaskRequest{
        RefreshTask: refreshTaskbody,
    }
    response, err := client.CreateRefreshTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.9.2 Creating a Cache Prefetch Task

Function

This API is used to create a cache prefetch task.

- A single tenant can call this API 30 times per second.

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Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/cdn/content/preheating-tasks

Table 4-395 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the cache prefetch task is added. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 4-396 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 4-397 Request body parameters

Parameter	Mandatory	Type	Description
preheating_task	Yes	**PreheatingTaskRequestBody** object	Cache prefetch settings.

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Table 4-398 PreheatingTaskRequestBody

Parameter	Mandatory	Type	Description
zh_url_encode	No	Boolean	Whether to encode Chinese characters in URLs before cache prefetch. Possible values: **false** (disabled, default value) and **true** (enabled). After this function is enabled, cache is prefetched only for transcoded URLs.
urls	Yes	Array of strings	A URL must contain **http://** or **https://**. A URL can contain up to 4,096 characters. Enter up to 1,000 URLs and separate them by commas (,), for example. **"url1", "url2"**. Currently, directory prefetch is not supported.

Response Parameters

Status code: 200

Table 4-399 Response body parameters

Parameter	Type	Description
preheating_task	String	Task ID.

Example Requests

```
POST https://cdn.myhuaweicloud.com/v1.0/cdn/content/preheating-tasks?enterprise_project_id=0

{
  "preheating_task" : {
    "urls" : [ "https://www.bxxx/1.txt", "http://www.bxxx/2.txt" ]
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "preheating_task" : "7620242"
}
```

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SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreatePreheatingTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        CreatePreheatingTasksRequest request = new CreatePreheatingTasksRequest();
        PreheatingTaskRequest body = new PreheatingTaskRequest();
        List<String> listPreheatingTaskUrls = new ArrayList<>();
        listPreheatingTaskUrls.add("https://www.bxxx/1.txt");
        listPreheatingTaskUrls.add("http://www.bxxx/2.txt");
        PreheatingTaskRequestBody preheatingTaskbody = new PreheatingTaskRequestBody();
        preheatingTaskbody.withUrls(listPreheatingTaskUrls);
        body.withPreheatingTask(preheatingTaskbody);
        request.withBody(body);
        try {
            CreatePreheatingTasksResponse response = client.createPreheatingTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

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```
import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePreheatingTasksRequest()
        listUrlsPreheatingTask = [
            "https://www.bxxx/1.txt",
            "http://www.bxxx/2.txt"
        ]
        preheatingTaskbody = PreheatingTaskRequestBody(
            urls=listUrlsPreheatingTask
        )
        request.body = PreheatingTaskRequest(
            preheating_task=preheatingTaskbody
        )
        response = client.create_preheating_tasks(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
```

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```
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePreheatingTasksRequest{}
    var listUrlsPreheatingTask = []string{
        "https://www.bxxx/1.txt",
        "http://www.bxxx/2.txt",
    }
    preheatingTaskbody := &model.PreheatingTaskRequestBody{
        Urls: listUrlsPreheatingTask,
    }
    request.Body = &model.PreheatingTaskRequest{
        PreheatingTask: preheatingTaskbody,
    }
    response, err := client.CreatePreheatingTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.9.3 Querying Cache Purge and Prefetch Tasks

Function

This API is used to query cache purge and prefetch tasks.

- A single tenant can call this API 30 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/historytasks

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Table 4-400 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).
page_size	No	Integer	Maximum number of records on each page. The value ranges from 1 to 10,000. Both **page_size** and **page_number** must be set. Default value: **30**.
page_number	No	Integer	Number of the page to be queried. The value ranges from 1 to 65,535. Default value: **1**.
status	No	String	Task status. **task_inprocess**: The task is being processed. **task_done**: The task is completed.
start_date	No	Long	Query start time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
end_date	No	Long	Query end time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).

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Parameter	Mandatory	Type	Description
order_field	No	String	Field used for sorting. Supported fields include **task_type** (task type), **total** (total number of URLs), **processing** (number of URLs that are being processed), **succeed** (number of processed URLs), **failed** (number of URLs that fail to be processed), and **create_time** (task creation time). Both **order_field** and **order_type** must be set. Otherwise, the default values **create_time** and **desc** are used.
order_type	No	String	**desc**: descending order (default value); **asc**: ascending order.
file_type	No	String	File type. Possible values: **file** and **directory**.
task_type	No	String	Task type. Possible values: **refresh** (cache purge) and **preheating** (cache prefetch).

Request Parameters

Table 4-401 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

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Table 4-402 Response body parameters

Parameter	Type	Description
total	Integer	Total number of tasks.
tasks	Array of **TasksObject** objects	Log list.

Table 4-403 TasksObject

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type. Possible values: **refresh** (cache purge) and **preheating** (cache prefetch).
status	String	Task execution result. **task_done**: The task is executed. **task_inprocess**: The task is being executed.
processing	Integer	Number of URLs that are being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of URLs in the task.
create_time	Long	Time when the task was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
file_type	String	File type. Possible values: **file** and **directory**.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/historytasks?
status=task_inprocess&page_size=30&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total" : 2,
  "tasks" : [ {
```

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```
    "id" : "ff8080xxxxxxxxxxxxd816ff0128",
    "status" : "task_inprocess",
    "processing" : 2,
    "succeed" : 0,
    "failed" : 0,
    "task_type" : "refresh",
    "total" : 2,
    "create_time" : 1534240233215,
    "file_type" : "file"
  }, {
    "id" : "ff8080xxxxxxxxxxx4fe64797",
    "status" : "task_inprocess",
    "processing" : 1,
    "succeed" : 0,
    "failed" : 0,
    "task_type" : "refresh",
    "total" : 1,
    "create_time" : 1534240219944,
    "file_type" : "file"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowHistoryTasksSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowHistoryTasksRequest request = new ShowHistoryTasksRequest();
        try {
            ShowHistoryTasksResponse response = client.showHistoryTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

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```
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowHistoryTasksRequest()
        response = client.show_history_tasks(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```

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```
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowHistoryTasksRequest{}
    response, err := client.ShowHistoryTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.9.4 Querying a Cache Purge or Prefetch Task

Function

This API is used to query details about a cache purge or prefetch task.

- A single tenant can call this API 30 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/historytasks/{history_tasks_id}/detail

Table 4-404 Path Parameters

Parameter	Mandatory	Type	Description
history_tasks_id	Yes	String	ID of a cache purge or prefetch task.

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Table 4-405 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).
page_size	No	Integer	Maximum number of URLs for purge and prefetch on each page. The value ranges from 1 to 10,000. Both **page_size** and **page_number** must be set. Default value: **30**.
page_number	No	Integer	Number of the page to be queried. The value ranges from 1 to 65,535. Default value: **1**.
status	No	String	URL status. Possible values: **processing**, **succeed**, **failed**, **waiting**, **refreshing**, and **preheating**.
url	No	String	URL of the content to be purged or prefetched.
create_time	No	Long	Time when a task was created. If this parameter is not passed, tasks within the last seven days are queried by default. Data within the last 15 days can be queried.

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Request Parameters

Table 4-406 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 4-407 Response body parameters

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type. Possible values: **refresh** (cache purge) and **preheating** (cache prefetch).
status	String	Task execution result. Possible values: **task_done** (successful) and **task_inprocess** (processing).
urls	Array of **UrlObject** objects	URL list.
create_time	Long	Creation time.
processing	Integer	Number of URLs that are being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of URLs.
file_type	String	File type. Possible values: **file** (default value) and **directory**.

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Table 4-408 UrlObject

Parameter	Type	Description
id	String	URL ID.
url	String	URL of the content to be purged or prefetched.
status	String	URL status. Possible values: **processing**, **succeed**, **failed**, **waiting**, **refreshing**, and **preheating**.
create_time	Long	Time when the URL was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
task_id	String	Task ID.
task_type	String	Task type. Possible values: **REFRESH** (purge), **PREHEATING** (prefetch), or **REFRESH_AFTER_PREHEATING** (purge after prefetch).
fail_classify	String	Failure cause. This parameter is returned when the URL status is failed. • **ORIGIN_ERROR**: origin server error. • **INNER_ERROR**: internal error. • **UNKNOWN_ERROR**: unknown error.
fail_desc	String	Description of the cache purge/ prefetch failure.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/historytasks/ff808**********b39/detail?
page_size=10&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id" : "ff80808xxxxxxxxx64797",
  "status" : "task_inprocess",
  "processing" : 2,
  "succeed" : 0,
  "failed" : 0,
  "urls" : [ {
    "url" : "http://www.example1.example2.com/index.html",
    "id" : "ff80808264exxxxxxxxx60c4fe74798",
    "status" : "processing",
    "create_time" : 1532867923942,
    "task_id" : "ff80808xxxxxxxxx64797",
    "task_type" : "PREHEATING"
```

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```
 }, {
   "url" : "http://www.example1.example2.com/web",
   "id" : "ff80808******************4799",
   "status" : "processing",
   "create_time" : 1532867923942,
   "task_id" : "ff80808xxxxxxxxx64797",
   "task_type" : "PREHEATING"
 } ],
 "task_type" : "preheating",
 "total" : 2,
 "create_time" : 1532867923942,
 "file_type" : "file"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowHistoryTaskDetailsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowHistoryTaskDetailsRequest request = new ShowHistoryTaskDetailsRequest();
        request.withHistoryTasksId("{history_tasks_id}");
        try {
            ShowHistoryTaskDetailsResponse response = client.showHistoryTaskDetails(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
```

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```
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowHistoryTaskDetailsRequest()
        request.history_tasks_id = "{history_tasks_id}"
        response = client.show_history_task_details(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

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```
            WithCredential(auth).
            Build())

    request := &model.ShowHistoryTaskDetailsRequest{}
    request.HistoryTasksId = "{history_tasks_id}"
    response, err := client.ShowHistoryTaskDetails(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

4.9.5 Querying Cache Purge and Prefetch Records

Function

This API is used to query cache purge and prefetch records. To use this API, submit a service ticket.

- A single tenant can call this API 30 times per second.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/cdn/contentgateway/url-tasks

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Table 4-409 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds. The default value is 00:00 of the current day. The start timestamp and end timestamp must be specified at the same time and the time span between them cannot exceed 24 hours.
end_time	No	Long	Query end timestamp, in milliseconds. The default value is 00:00 of the next day. The end timestamp and start timestamp must be specified at the same time and the time span between them cannot exceed 24 hours.
offset	No	Integer	Offset, which is the distance between a specific data field and the start data field. Default value: **0**.
limit	No	Integer	Number of data records queried at a time. Maximum value: **100**. Default value: **10**.
url	No	String	URL of the content to be purged or prefetched.
task_type	No	String	Task type. Possible values: **REFRESH** (cache purge) and **PREHEATING** (cache prefetch).
status	No	String	URL status. Possible values: **processing**, **succeed**, **failed**, **waiting**, **refreshing**, and **preheating**.
file_type	No	String	File type. Possible values: **file** and **directory**.

Request Parameters

None

Response Parameters

Status code: 200

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Table 4-410 Response header parameters

Parameter	Type	Description
X-request-id	String	Task request ID.

Table 4-411 Response body parameters

Parameter	Type	Description
total	Integer	Total number of queried records.
count	Integer	Total number of records on the current page.
result	Array of **urls** objects	URL information.

Table 4-412 urls

Parameter	Type	Description
id	Long	URL ID.
url	String	URL.
status	String	URL status. Possible values: **PROCESSING**, **SUCCEED**, **FAILED**, **WAITING**, **REFRESHING** (purging), and **PREHEATING** (prefetching).
type	String	Task type. Possible values: **REFRESH** (cache purge) and **PREHEATING** (cache prefetch).
task_id	Long	Task ID.
modify_time	Long	Modification timestamp, in milliseconds.
create_time	Long	Creation timestamp, in milliseconds.
file_type	String	File type. Possible values: **file** and **directory**.
mode	String	Directory purge mode. Possible values: **all** (refresh all resources in the directory) and **detect_modify_refresh** (refresh changed resources in the directory).

Status code: 400

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Table 4-413 Response header parameters

Parameter	Type	Description
X-request-id	String	Task request ID.

Table 4-414 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/contentgateway/url-tasks?&status=processing
```

Example Responses

Status code: 200

Query result response example

```
{
  "total" : 31548,
  "count" : 10,
  "result" : [ {
    "id" : 8992619,
    "url" : "https://scxximwp.qqeixmbe.com/test.jpg",
    "status" : "SUCCEED",
    "type" : "REFRESH",
    "task_id" : 407354,
    "modify_time" : 1652325742000,
    "create_time" : 1652325740318,
    "file_type" : "file"
  }, {
    "id" : 8992618,
    "url" : "https://obut8gmc.qqeixmbe.com/test.jpg",
    "status" : "SUCCEED",
    "type" : "REFRESH",
    "task_id" : 407353,
    "modify_time" : 1652325711000,
    "create_time" : 1652325708268,
    "file_type" : "file"
  }, {
    "id" : 8992617,
    "url" : "https://scxximwp.qqeixmbe.com/test.jpg",
    "status" : "SUCCEED",
    "type" : "REFRESH",
    "task_id" : 407353,
    "modify_time" : 1652325711000,
    "create_time" : 1652325708268,
    "file_type" : "file"
  }, {
    "id" : 8992616,
    "url" : "http://content-hw.autotest.com/autotest/DQCkkgmV",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
```

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```
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992615,
    "url" : "http://content-hw.autotest.com/autotest/dQSF5jEx",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992614,
    "url" : "http://content-hw.autotest.com/autotest/quN2l1oh",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992613,
    "url" : "http://content-hw.autotest.com/autotest/Wgk3AKVu",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992612,
    "url" : "http://content-hw.autotest.com/autotest/jg1cv1vV",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992611,
    "url" : "http://content-hw.autotest.com/autotest/DTxFfv6f",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  }, {
    "id" : 8992610,
    "url" : "http://content-hw.autotest.com/autotest/g8QYHTY4",
    "status" : "PROCESSING",
    "type" : "REFRESH",
    "task_id" : 407352,
    "modify_time" : 1652325672000,
    "create_time" : 1652325671917,
    "file_type" : "file"
  } ]
}
```


SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

```
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.cdn.v2.region.CdnRegion;
import com.huaweicloud.sdk.cdn.v2.*;
import com.huaweicloud.sdk.cdn.v2.model.*;


public class ShowUrlTaskInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        CdnClient client = CdnClient.newBuilder()
                .withCredential(auth)
                .withRegion(CdnRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowUrlTaskInfoRequest request = new ShowUrlTaskInfoRequest();
        try {
            ShowUrlTaskInfoResponse response = client.showUrlTaskInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkcdn.v2.region.cdn_region import CdnRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcdn.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = GlobalCredentials(ak, sk)

    client = CdnClient.new_builder() \
        .with_credentials(credentials) \
```

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```
        .with_region(CdnRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowUrlTaskInfoRequest()
        response = client.show_url_task_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    cdn "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cdn/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := cdn.NewCdnClient(
        cdn.CdnClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowUrlTaskInfoRequest{}
    response, err := client.ShowUrlTaskInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Query result response example

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Status Code	Description
400	Error response

Error Codes

See **Error Codes**.

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5 Out-of-Date APIs

5.1 Domain Name Configuration

5.1.1 Enabling or Disabling Range-based Retrieval

Function

In range-based retrieval, the origin server sends data of a specified range to a CDN node based on the range information in the HTTP request header.

Before enabling range-based retrieval, check whether the origin server supports range requests. If the origin server does not support range requests, enabling range-based retrieval will cause cache failure.

URI

PUT /v1.0/cdn/domains/{domain_id}/range-switch

Table 5-1 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-2 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-3 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-4 Request body parameters

Parameter	Mandatory	Type	Description
range_status	Yes	String	Specifies the status of range-based retrieval. Possible values: **off** and **on**.

Response Parameters

Status code: 200

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Table 5-5 Response body parameters

Parameter	Type	Description
origin_range	**OriginRangeBody** object	Specifies the range-based retrieval settings.

Table 5-6 OriginRangeBody

Parameter	Type	Description
range_status	String	Specifies the status of range-based retrieval. Possible values: **off** and **on**.
domain_id	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80808266fd001e0166fd21c65d0337/range-switch

{
  "range_status" : "on"
}
```

Example Responses

Status code: 200

OK

```
{
  "origin_range" : {
    "domain_id" : "ff8080826812caa9016812dbfcd400ea",
    "range_status" : "off"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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5.1.2 Enabling or Disabling Redirect Retrieval

Function

If this function is enabled, and a CDN node receives a response with status code 302 after sending a content retrieval request to the origin server, the CDN code will jump to the address specified in the response, obtain and cache the content, and forward the content to users.

URI

PUT /v1.0/cdn/domains/{domain_id}/follow302-switch

Table 5-7 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-8 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

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Request Parameters

Table 5-9 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-10 Request body parameters

Parameter	Mandatory	Type	Description
follow302_status	Yes	String	Specifies the status of 302 redirect retrieval. Possible values: **off** and **on**.

Response Parameters

Status code: 200

Table 5-11 Response body parameters

Parameter	Type	Description
follow_status	**Follow302StatusBody** object	Specifies the redirect retrieval settings.

Table 5-12 Follow302StatusBody

Parameter	Type	Description
domain_id	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.
follow_status	String	Specifies the status of 302 redirect retrieval. Possible values: **off** and **on**.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff1a**********00ea/follow302?enterprise_project_id=0

{
  "follow302_status" : "on"
}
```

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Example Responses

Status code: 200

OK

```
{
  "follow_status" : {
    "domain_id" : "ff1a**********************00ea",
    "follow_status" : "off"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.3 Configuring a Referer List

Function

This API is used to configure a referer list. Users are identified and filtered based on the list, so access sources can be controlled.

URI

PUT /v1.0/cdn/domains/{domain_id}/referer

Table 5-13 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-14 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-15 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-16 Request body parameters

Parameter	Mandatory	Type	Description
referer	Yes	**Referer** object	Specifies the referer settings.

Table 5-17 Referer

Parameter	Mandatory	Type	Description
referer_type	Yes	Integer	Specifies the type of the referer filtering rule. Possible values: **0** (no referer filtering), **1** (blacklist), and **2** (whitelist). Default value: **0**.

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Parameter	Mandatory	Type	Description
referer_list	No	String	Specifies the referer validation configuration. Multiple IP addresses or domain names are supported and they must be separated by semicolons (;). This parameter is mandatory when referer validation is enabled.
include_empty	No	Boolean	Specifies whether a blank referer is included in the blacklist or whitelist. If you configure a referer blacklist and enable this function, requests with no referers are not allowed. If you configure a referer whitelist and enable this function, requests with no referers are allowed. Default value: **false**.

Response Parameters

Status code: 200

Table 5-18 Response body parameters

Parameter	Type	Description
referer	**RefererRsp** object	Specifies the referer settings.

Table 5-19 RefererRsp

Parameter	Type	Description
referer_type	Integer	Specifies the type of the referer filtering rule. Possible values: **0** (no referer filtering), **1** (blacklist), and **2** (whitelist). Default value: **0**.
referer_list	String	Specifies the referer validation configuration. Multiple IP addresses or domain names are supported and they must be separated by semicolons (;). This parameter is mandatory when referer validation is enabled.

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Parameter	Type	Description
include_empty	Boolean	Specifies whether a blank referer is included in the blacklist or whitelist. If you configure a referer blacklist and enable this function, requests with no referers are not allowed. If you configure a referer whitelist and enable this function, requests with no referers are allowed. By default, blank referers are not included.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********d71/referer?
enterprise_project_id=0

{
  "referer" : {
    "referer_type" : 1,
    "referer_list" : "www.example1.com;www.example2.com",
    "include_empty" : false
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "referer" : {
    "referer_type" : 1,
    "referer_list" : "www.example1.com;www.example2.com",
    "include_empty" : false
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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5.1.4 Querying a Referer List

Function

This API is used to query a referer list.

URI

GET /v1.0/cdn/domains/{domain_id}/referer

Table 5-20 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-21 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-22 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

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Response Parameters

Status code: 200

Table 5-23 Response body parameters

Parameter	Type	Description
referer	**RefererRsp** object	Specifies the referer settings.

Table 5-24 RefererRsp

Parameter	Type	Description
referer_type	Integer	Specifies the type of the referer filtering rule. Possible values: **0** (no referer filtering), **1** (blacklist), and **2** (whitelist). Default value: **0**.
referer_list	String	Specifies the referer validation configuration. Multiple IP addresses or domain names are supported and they must be separated by semicolons (;). This parameter is mandatory when referer validation is enabled.
include_empty	Boolean	Specifies whether a blank referer is included in the blacklist or whitelist. If you configure a referer blacklist and enable this function, requests with no referers are not allowed. If you configure a referer whitelist and enable this function, requests with no referers are allowed. By default, blank referers are not included.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********d71/referer?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "referer" : {
    "referer_type" : 1,
    "referer_list" : "www.example1.com;www.example2.com",
    "include_empty" : false
  }
}
```

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Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.5 Querying Details About an ACL

Function

This API is used to query the access control list (ACL) configured for a domain name.

URI

GET /v1.0/cdn/domains/{domain_id}/ip-acl

Table 5-25 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the ID of the domain name whose ACL is to be queried. For details, see *Querying Details About a Domain Name*.

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Table 5-26 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-27 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-28 Response body parameters

Parameter	Type	Description
type	Integer	Specifies the type of the IP address filtering rule. Possible values: **0** (no blacklist or whitelist), **1** (blacklist), and **2** (whitelist).
ip_list	Array of strings	Specifies the blacklisted or whitelisted IP addresses. If the mask is supported and available, the IP address portion of the subnet must be the first IP address on that block.

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Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********d71/ip-acl?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "type" : 1,
  "ip_list" : [ "10.23.3.3", "10.12.3.0/24" ]
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.6 Setting an ACL

Function

This API is used to set an ACL for your domain name.

URI

PUT /v1.0/cdn/domains/{domain_id}/ip-acl

Table 5-29 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the ID of the domain name for which an ACL is to be set. For details, see *Querying Details About a Domain Name*.

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Table 5-30 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-31 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-32 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	Integer	Specifies the type of the IP address filtering rule. Possible values: **0** (no blacklist or whitelist), **1** (blacklist), and **2** (whitelist).
ip_list	No	Array of strings	Specifies the blacklisted or whitelisted IP addresses. If the mask is supported and available, the IP address portion of the subnet must be the first IP address on that block.

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Response Parameters

Status code: 200

Table 5-33 Response body parameters

Parameter	Type	Description
code	String	Specifies the response code.
result	String	Specifies the response result.
data	Object	Specifies the response data.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********************d71/ip-acl

{
  "type" : 1,
  "ip_list" : [ "10.23.3.3", "10.12.3.0/24" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "code" : "success",
  "result" : "operate success!",
  "data" : { }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.7 Configuring a Cache Rule

Function

This API is used to configure a content cache rule for CDN nodes.

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URI

PUT /v1.0/cdn/domains/{domain_id}/cache

Table 5-34 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-35 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-36 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

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Table 5-37 Request body parameters

Parameter	Mandatory	Type	Description
cache_config	Yes	**CacheConfigRequest** object	Specifies the cache configuration.

Table 5-38 CacheConfigRequest

Parameter	Mandatory	Type	Description
ignore_url_parameter	No	Boolean	Specifies whether to ignore URL parameters.
follow_origin	No	Boolean	Specifies whether to enable origin cache control.
compress	No	**CompressRequest** object	Specifies the gzip compression settings.
rules	No	Array of **Rules** objects	Specifies the cache rules, which overwrite the previous rule configurations. Blank rules are reset to default rules.

Table 5-39 CompressRequest

Parameter	Mandatory	Type	Description
compress_switch	No	Integer	Specifies whether gzip compression is enabled. Possible values: **0** (disabled) and **1** (enabled).

Table 5-40 Rules

Parameter	Mandatory	Type	Description
rule_type	Yes	Integer	**0**: All types of files are matched. It is the default value. **1**: Files are matched based on their suffixes. **2**: Files are matched based on their directories. **3**: Files are matched based on their full paths.

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Parameter	Mandatory	Type	Description
content	No	String	Specifies the content that matches **rule_type**. If **rule_type** is set to **0**, this parameter is empty. If **rule_type** is set to **1**, the value of this parameter is a list of file name extensions. A file name extension starts with a period (.). File name extensions are separated by semicolons (;), for example, **.jpg;.zip;.exe**. If **rule_type** is set to **2**, the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by semicolons (;), for example, **/test/folder01;/test/folder02**. If **rule_type** is set to **3**, the value of this parameter is a full path. A full path starts with a slash (/). Wildcard characters (*) are supported. For example, **/test/index.html** and **/test/*.jpg**.
ttl	Yes	Integer	Specifies the cache age. The maximum cache age is 365 days.
ttl_type	Yes	Integer	Specifies the unit of the cache age. Possible values: **1** (second), **2** (minute), **3** (hour), and **4** (day).
priority	Yes	Integer	Specifies the priority weight of this rule. The default value is **1**. A larger value indicates a higher priority. The value ranges from 1 to 100. The weight values must be unique.

Response Parameters

Status code: 200

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Table 5-41 Response body parameters

Parameter	Type	Description
cache_config	**CacheConfig** object	Specifies the cache configuration.

Table 5-42 CacheConfig

Parameter	Type	Description
ignore_url_parameter	Boolean	Specifies whether to ignore URL parameters.
follow_origin	Boolean	Specifies whether to enable origin cache control.
compress	**CompressResponse** object	Specifies the gzip compression settings.
rules	Array of **Rules** objects	Specifies the cache rules, which overwrite the previous rule configurations. Blank rules are reset to default rules.

Table 5-43 CompressResponse

Parameter	Type	Description
compress_switch	Integer	Specifies whether gzip compression is enabled. Possible values: **0** (disabled) and **1** (enabled).
compress_rules	Array of **CompressRules** objects	Specifies the gzip compression rule.

Table 5-44 CompressRules

Parameter	Type	Description
compress_type	String	Specifies the compression type. Currently, the value can only be set to **gzip**.
compress_file_type	String	Specifies the file types supported by gzip compression. File types are separated by vertical bars (|), for example, **.js|.html|.css|.xml**.

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Table 5-45 Rules

Parameter	Type	Description
rule_type	Integer	**0**: All types of files are matched. It is the default value. **1**: Files are matched based on their suffixes. **2**: Files are matched based on their directories. **3**: Files are matched based on their full paths.
content	String	Specifies the content that matches **rule_type**. If **rule_type** is set to **0**, this parameter is empty. If **rule_type** is set to **1**, the value of this parameter is a list of file name extensions. A file name extension starts with a period (.). File name extensions are separated by semicolons (;), for example, **.jpg;.zip;.exe**. If **rule_type** is set to **2**, the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by semicolons (;), for example, **/test/folder01;/test/folder02**. If **rule_type** is set to **3**, the value of this parameter is a full path. A full path starts with a slash (/). Wildcard characters (*) are supported. For example, **/test/index.html** and **/test/*.jpg**.
ttl	Integer	Specifies the cache age. The maximum cache age is 365 days.
ttl_type	Integer	Specifies the unit of the cache age. Possible values: **1** (second), **2** (minute), **3** (hour), and **4** (day).
priority	Integer	Specifies the priority weight of this rule. The default value is **1**. A larger value indicates a higher priority. The value ranges from 1 to 100. The weight values must be unique.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff808**********2d71/cache?
enterprise_project_id=0
```

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```
{
  "cache_config" : {
    "ignore_url_parameter" : false,
    "follow_origin" : false,
    "compress" : {
      "compress_switch" : 1
    },
    "rules" : [ {
      "rule_type" : 1,
      "content" : ".jpg;.png",
      "ttl" : 30,
      "ttl_type" : 3,
      "priority" : 1
    } ]
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "cache_config" : {
    "rules" : [ {
      "rule_type" : 1,
      "content" : ".jpg;.png",
      "ttl" : 30,
      "ttl_type" : 3,
      "priority" : 1
    }, {
      "rule_type" : 0,
      "content" : "",
      "ttl" : 600,
      "ttl_type" : 1,
      "priority" : 1
    } ],
    "ignore_url_parameter" : false,
    "follow_origin" : false,
    "compress" : {
      "compress_switch" : 1,
      "compress_rules" : [ {
        "compress_type" : "gzip",
        "compress_file_type" : ".js|.html|.css|.xml|.json|.shtml|.htm"
      } ]
    }
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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5.1.8 Querying a Cache Rule

Function

This API is used to query a cache rule.

URI

GET /v1.0/cdn/domains/{domain_id}/cache

Table 5-46 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-47 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-48 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

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Response Parameters

Status code: 200

Table 5-49 Response body parameters

Parameter	Type	Description
cache_config	**CacheConfig** object	Specifies the cache configuration.

Table 5-50 CacheConfig

Parameter	Type	Description
ignore_url_parameter	Boolean	Specifies whether to ignore URL parameters.
follow_origin	Boolean	Specifies whether to enable origin cache control.
compress	**CompressResponse** object	Specifies the gzip compression settings.
rules	Array of **Rules** objects	Specifies the cache rules, which overwrite the previous rule configurations. Blank rules are reset to default rules.

Table 5-51 CompressResponse

Parameter	Type	Description
compress_switch	Integer	Specifies whether gzip compression is enabled. Possible values: **0** (disabled) and **1** (enabled).
compress_rules	Array of **CompressRules** objects	Specifies the gzip compression rule.

Table 5-52 CompressRules

Parameter	Type	Description
compress_type	String	Specifies the compression type. Currently, the value can only be set to **gzip**.

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Parameter	Type	Description
compress_file_type	String	Specifies the file types supported by gzip compression. File types are separated by vertical bars (|), for example, **.js|.html|.css|.xml**.

Table 5-53 Rules

Parameter	Type	Description
rule_type	Integer	**0**: All types of files are matched. It is the default value. **1**: Files are matched based on their suffixes. **2**: Files are matched based on their directories. **3**: Files are matched based on their full paths.
content	String	Specifies the content that matches **rule_type**. If **rule_type** is set to **0**, this parameter is empty. If **rule_type** is set to **1**, the value of this parameter is a list of file name extensions. A file name extension starts with a period (.). File name extensions are separated by semicolons (;), for example, **.jpg;.zip;.exe**. If **rule_type** is set to **2**, the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by semicolons (;), for example, **/test/folder01;/test/folder02**. If **rule_type** is set to **3**, the value of this parameter is a full path. A full path starts with a slash (/). Wildcard characters (*) are supported. For example, **/test/index.html** and **/test/*.jpg**.
ttl	Integer	Specifies the cache age. The maximum cache age is 365 days.
ttl_type	Integer	Specifies the unit of the cache age. Possible values: **1** (second), **2** (minute), **3** (hour), and **4** (day).

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Parameter	Type	Description
priority	Integer	Specifies the priority weight of this rule. The default value is **1**. A larger value indicates a higher priority. The value ranges from 1 to 100. The weight values must be unique.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********d71/cache?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "cache_config" : {
    "rules" : [ {
      "rule_type" : 1,
      "content" : ".jpg;.png",
      "ttl" : 30,
      "ttl_type" : 3,
      "priority" : 1
    }, {
      "rule_type" : 0,
      "content" : "",
      "ttl" : 600,
      "ttl_type" : 1,
      "priority" : 1
    } ],
    "ignore_url_parameter" : false,
    "follow_origin" : false,
    "compress" : {
      "compress_switch" : 1,
      "compress_rules" : [ {
        "compress_type" : "gzip",
        "compress_file_type" : ".js|.html|.css|.xml|.json|.shtml|.htm"
      } ]
    }
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

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5.1.9 Configuring HTTPS Settings

Function

This API is used to configure HTTPS settings for an acceleration domain name. You can deploy the HTTPS settings on all CDN nodes to implement secure acceleration.

URI

PUT /v1.0/cdn/domains/{domain_id}/https-info

Table 5-54 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-55 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

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Request Parameters

Table 5-56 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-57 Request body parameters

Parameter	Mandatory	Type	Description
https	Yes	**HttpInfoRequestBody** object	Specifies the HTTPS settings.

Table 5-58 HttpInfoRequestBody

Parameter	Mandatory	Type	Description
cert_name	Yes	String	Specifies the certificate name. The value contains 3 to 32 characters.
https_status	Yes	Integer	Specifies whether to enable HTTPS. Possible values: **0**: Disable HTTPS. The certificate and private key are not required. **1**: Enable HTTPS and select **Same as user** for **Origin Protocol**. **2**: Enable HTTPS and select **HTTP** for **Origin Protocol**. **3**: Enable HTTPS and select **HTTPS** for **Origin Protocol**. The certificate and private key are required when you configure the certificate for the first time. You will need to specify the certificate and private key when you enable HTTPS, except that you have already configured the certificate and private key before.

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Parameter	Mandatory	Type	Description
certificate	No	String	Specifies the body of the certificate used by the HTTPS protocol. This parameter is not required if **https_status** is set to **0**. The value is in PEM format. This parameter is required if **https_status** is set to **1** or **2** and you configure the certificate for the first time.
private_key	No	String	Specifies the private key used by the HTTPS protocol. This parameter is not required if **https_status** is set to **0**. The value is in PEM format. This parameter is required if **https_status** is set to **1** or **2** and you configure the certificate for the first time.
http2	No	Integer	Specifies whether to use HTTP/2. Possible values: **1** (yes) and **0** (no).
certificate_type	No	Integer	Specifies the certificate type. Possible values: **1** (Huawei-managed certificate) and **0** (your own certificate). Default value: **0**.
force_redirect_https	No	Integer	Specifies whether to forcibly redirect requests to HTTPS. Possible values: **0** (no) and **1** (yes). You are advised to use **force_redirect_config** to configure the settings.
force_redirect_config	No	**ForceRedirect** object	Specifies the forcible redirect settings.

Table 5-59 ForceRedirect

Parameter	Mandatory	Type	Description
switch	Yes	Integer	Specifies whether to enable forcible redirect. Possible values: **1** (enabled) and **0** (disabled).

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Parameter	Mandatory	Type	Description
redirect_type	No	String	Specifies the protocol to which requests are forcibly redirected. Possible values: **http** and **https**.

Response Parameters

Status code: 200

Table 5-60 Response body parameters

Parameter	Type	Description
https	**HttpInfoResponseBody** object	Specifies the HTTPS settings.

Table 5-61 HttpInfoResponseBody

Parameter	Type	Description
https_status	Integer	Specifies whether to enable HTTPS. Possible values: **0**: Disable HTTPS. The certificate and private key are not required. **1**: Enable HTTPS and select **Same as user** for **Origin Protocol** on the CDN console. **2**: Enable HTTPS and select **HTTP** for **Origin Protocol** on the CDN console. **3**: Enable HTTPS and select **HTTPS** for **Origin Protocol** on the CDN console. The certificate and private key are required when HTTPS is enabled.
cert_name	String	Specifies the certificate name. The value contains 3 to 32 characters.
certificate	String	Specifies the certificate body.
private_key	String	Specifies the private key used by the HTTPS protocol. This parameter is not required if **https_status** is set to **0**. The value is in PEM coding format.
certificate_type	Integer	Specifies the certificate type. Possible values: **1** (Huawei-managed certificate) and **0** (your own certificate).

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Parameter	Type	Description
force_redirect_https	Integer	Specifies whether forcible redirect is enabled. Possible values: **1** (yes) and **0** (no).
force_redirect_config	**ForceRedirect** object	Specifies the forcible redirect settings.
http2	Integer	Specifies whether to use HTTP/2. Possible values: **1** (yes) and **0** (no).
expiration_time	Long	Specifies the time when the certificate expires.

Table 5-62 ForceRedirect

Parameter	Type	Description
switch	Integer	Specifies whether to enable forcible redirect. Possible values: **1** (enabled) and **0** (disabled).
redirect_type	String	Specifies the protocol to which requests are forcibly redirected. Possible values: **http** and **https**.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff8080**********d71/https-info?enterprise_project_id=0

{
  "https" : {
    "http2" : 0,
    "certificate_type" : 0,
    "force_redirect_config" : {
      "redirect_type" : "http",
      "switch" : 1
    },
    "force_redirect_https" : 1,
    "https_status" : 2,
    "cert_name" : "cdn_test_cert",
    "certificate" : "-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
    "private_key" : "-----BEGIN RSA PRIVATE KEY----------END RSA PRIVATE KEY-----"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "https" : {
    "http2" : 0,
```

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```
  "certificate_type" : 0,
  "force_redirect_config" : {
    "redirect_type" : "http",
    "switch" : 1
  },
  "expiration_time" : 1636183290000,
  "force_redirect_https" : 2,
  "https_status" : 2,
  "cert_name" : "cdn_test_cert",
  "certificate" : "-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
  "private_key" : ""
 }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.10 Querying HTTP Settings

Function

This API is used to query a certificate of an acceleration domain name.

URI

GET /v1.0/cdn/domains/{domain_id}/https-info

Table 5-63 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-64 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-65 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-66 Response body parameters

Parameter	Type	Description
https	**HttpInfoResponseBody** object	Specifies the HTTPS settings.

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Table 5-67 HttpInfoResponseBody

Parameter	Type	Description
https_status	Integer	Specifies whether to enable HTTPS. Possible values: **0**: Disable HTTPS. The certificate and private key are not required. **1**: Enable HTTPS and select **Same as user** for **Origin Protocol** on the CDN console. **2**: Enable HTTPS and select **HTTP** for **Origin Protocol** on the CDN console. **3**: Enable HTTPS and select **HTTPS** for **Origin Protocol** on the CDN console. The certificate and private key are required when HTTPS is enabled.
cert_name	String	Specifies the certificate name. The value contains 3 to 32 characters.
certificate	String	Specifies the certificate body.
private_key	String	Specifies the private key used by the HTTPS protocol. This parameter is not required if **https_status** is set to **0**. The value is in PEM coding format.
certificate_type	Integer	Specifies the certificate type. Possible values: **1** (Huawei-managed certificate) and **0** (your own certificate).
force_redirect_https	Integer	Specifies whether forcible redirect is enabled. Possible values: **1** (yes) and **0** (no).
force_redirect_config	**ForceRedirect** object	Specifies the forcible redirect settings.
http2	Integer	Specifies whether to use HTTP/2. Possible values: **1** (yes) and **0** (no).
expiration_time	Long	Specifies the time when the certificate expires.

Table 5-68 ForceRedirect

Parameter	Type	Description
switch	Integer	Specifies whether to enable forcible redirect. Possible values: **1** (enabled) and **0** (disabled).

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Parameter	Type	Description
redirect_type	String	Specifies the protocol to which requests are forcibly redirected. Possible values: **http** and **https**.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff808**********307d/https-info?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "https" : {
    "https_status" : 2,
    "force_redirect_https" : 1,
    "http2" : 0,
    "cert_name" : "cdn_test_cert",
    "certificate" : "-----BEGIN CERTIFICATE----------END CERTIFICATE-----",
    "private_key" : "",
    "certificate_type" : 0,
    "expiration_time" : 1636183290000
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.11 Adding or Modifying Response Headers

Function

This API is used to add or modify response headers.

URI

PUT /v1.0/cdn/domains/{domain_id}/response-header

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Table 5-69 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-70 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-71 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-72 Request body parameters

Parameter	Mandatory	Type	Description
headers	No	**HeaderMap** object	Specifies the values of HTTP headers.

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Table 5-73 HeaderMap

Parameter	Mandatory	Type	Description
Content-Disposition	No	String	Specifies the format in which the response content is displayed.
Content-Language	No	String	Specifies the languages that the visitor wants to use.
Access-Control-Allow-Origin	No	String	Specifies whether cross-origin resource sharing (CORS) is enabled for the response content.
Access-Control-Allow-Methods	No	String	Specifies the methods that can be used by the content to be accessed by the client.
Access-Control-Max-Age	No	String	Specifies how long the information provided by the **Access-Control-Allow-Methods** and **Access-Control-Allow-Headers** can be cached.
Access-Control-Expose-Headers	No	String	Specifies the headers that can be exposed as a part of responses to requests from other clients.

Response Parameters

Status code: 200

Table 5-74 Response body parameters

Parameter	Type	Description
headers	**HeaderMap** object	Specifies the HTTP header value.

Table 5-75 HeaderMap

Parameter	Type	Description
Content-Disposition	String	Specifies the format in which the response content is displayed.

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Parameter	Type	Description
Content-Language	String	Specifies the languages that the visitor wants to use.
Access-Control-Allow-Origin	String	Specifies whether cross-origin resource sharing (CORS) is enabled for the response content.
Access-Control-Allow-Methods	String	Specifies the methods that can be used by the content to be accessed by the client.
Access-Control-Max-Age	String	Specifies how long the information provided by the **Access-Control-Allow-Methods** and **Access-Control-Allow-Headers** can be cached.
Access-Control-Expose-Headers	String	Specifies the headers that can be exposed as a part of responses to requests from other clients.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff808**********************307d/response-header

{
  "headers" : {
    "Content-Disposition" : "test.xml",
    "Content-Language" : "en-US",
    "Access-Control-Max-Age" : "86400"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "headers" : {
    "Content-Disposition" : "test.xml",
    "Content-Language" : "en-US",
    "Access-Control-Max-Age" : "86400"
  }
}
```

Status Codes

Status Code	Description
200	OK

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Error Codes

See **Error Codes**.

5.1.12 Querying Response Headers

Function

This API is used to query response headers.

URI

GET /v1.0/cdn/domains/{domain_id}/response-header

Table 5-76 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

Table 5-77 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

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Request Parameters

Table 5-78 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-79 Response body parameters

Parameter	Type	Description
headers	HeaderMap object	Specifies the HTTP header value.

Table 5-80 HeaderMap

Parameter	Type	Description
Content-Disposition	String	Specifies the format in which the response content is displayed.
Content-Language	String	Specifies the languages that the visitor wants to use.
Access-Control-Allow-Origin	String	Specifies whether cross-origin resource sharing (CORS) is enabled for the response content.
Access-Control-Allow-Methods	String	Specifies the methods that can be used by the content to be accessed by the client.
Access-Control-Max-Age	String	Specifies how long the information provided by the **Access-Control-Allow-Methods** and **Access-Control-Allow-Headers** can be cached.
Access-Control-Expose-Headers	String	Specifies the headers that can be exposed as a part of responses to requests from other clients.

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Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff808**********307d/response-header?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "headers" : {
    "Content-Disposition" : "test.xml",
    "Content-Language" : "en-US",
    "Access-Control-Max-Age" : "86400"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.13 Modifying Origin Server Details

Function

This API is used to modify the origin server settings of a domain name.

URI

PUT /v1.0/cdn/domains/{domain_id}/origin

Table 5-81 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-82 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-83 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-84 Request body parameters

Parameter	Mandatory	Type	Description
origin	Yes	**ResourceBody** object	Origin server.

Table 5-85 ResourceBody

Parameter	Mandatory	Type	Description
sources	Yes	Array of **SourceWithPort** objects	Origin server settings.

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Table 5-86 SourceWithPort

Parameter	Mandatory	Type	Description
domain_id	No	String	Domain name ID.
ip_or_domain	Yes	String	Specifies the IP address or domain name of the origin server.
origin_type	Yes	String	Origin server type, which can be origin server IP address, origin server domain name, and OBS bucket domain name.
active_standby	Yes	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	No	Integer	Specifies whether static hosting is enabled for an OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	No	Integer	Specifies the HTTP port. Default value: **80**.
https_port	No	Integer	Specifies the HTTPS port. Default value: **443**.

Response Parameters

Status code: 200

Table 5-87 Response body parameters

Parameter	Type	Description
origin	**ResourceBody** object	Specifies the origin server.

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Table 5-88 ResourceBody

Parameter	Type	Description
sources	Array of **SourceWithPort** objects	Origin server settings.

Table 5-89 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Specifies the IP address or domain name of the origin server.
origin_type	String	Origin server type, which can be origin server IP address, origin server domain name, and OBS bucket domain name.
active_standby	Integer	Whether the origin server is primary or standby. Possible values: **1** (primary) and **0** (standby).
enable_obs_web_hosting	Integer	Specifies whether static hosting is enabled for an OBS bucket. Possible values: **0** (disabled) and **1** (enabled). This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	Integer	Specifies the HTTP port. Default value: **80**.
https_port	Integer	Specifies the HTTPS port. Default value: **443**.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff808**********2d71/origin?
enterprise_project_id=0

{
  "origin" : {
    "sources" : [ {
      "ip_or_domain" : "0.0.0.0",
      "origin_type" : "ipaddr",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ]
  }
}
```

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Example Responses

Status code: 200

OK

```
{
  "origin" : {
    "sources" : [ {
      "domain_id" : "12ab**********************02b71",
      "origin_type" : "ipaddr",
      "ip_or_domain" : "0.0.0.0",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ]
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.14 Modifying the Host Header

Function

This API is used to modify the configuration of a retrieval host. A retrieval host is the domain name accessed by CDN nodes when the nodes retrieve content from the origin server. It is specified in the header of an HTTP retrieval request.

URI

PUT /v1.0/cdn/domains/{domain_id}/originhost

Table 5-90 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-91 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-92 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Table 5-93 Request body parameters

Parameter	Mandatory	Type	Description
origin_host	Yes	**OriginHostBody** object	Host header settings for origin pull.

Table 5-94 OriginHostBody

Parameter	Mandatory	Type	Description
origin_host_type	Yes	String	Host type. Possible values: **ipaddr** (origin server IP address), **domain** (origin server domain name), and **obs_bucket** (OBS bucket domain name).

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Parameter	Mandatory	Type	Description
customize_domain	No	String	Specifies the custom domain name. This parameter is mandatory when **origin_host_type** is set to **customize**.

Response Parameters

Status code: 200

Table 5-95 Response body parameters

Parameter	Type	Description
origin_host	**DomainOriginHost** object	Host header settings for origin pull.

Table 5-96 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.
origin_host_type	String	Host type. Possible values: **accelerate** (Select the acceleration domain name as the retrieval host domain name), **customize** (Use the user-defined domain name as the retrieval host domain name).
customize_domain	String	Specifies the custom domain name of the retrieval host.

Example Requests

```
PUT https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80************************d71/originhost?enterprise_project_id=0

{
  "origin_host" : {
    "origin_host_type" : "customize",
    "customize_domain" : "www.example1.com"
  }
}
```

Example Responses

Status code: 200

OK

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```
{
  "origin_host" : {
    "domain_id" : "ff80************************d71",
    "origin_host_type" : "customize",
    "customize_domain" : "www.example1.com"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.1.15 Querying a Retrieval Host

Function

This API is used to query a retrieval host. A retrieval host is the domain name accessed by CDN nodes when the nodes retrieve content from the origin server. It is specified in the header of an HTTP retrieval request.

URI

GET /v1.0/cdn/domains/{domain_id}/originhost

Table 5-97 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Specifies the acceleration domain name ID. For details, see *Querying Details About a Domain Name*.

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Table 5-98 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-99 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-100 Response body parameters

Parameter	Type	Description
origin_host	**DomainOriginHost** object	Host header settings for origin pull.

Table 5-101 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID.

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Parameter	Type	Description
origin_host_type	String	Host type. Possible values: **accelerate** (Select the acceleration domain name as the retrieval host domain name), **customize** (Use the user-defined domain name as the retrieval host domain name).
customize_domain	String	Specifies the custom domain name of the retrieval host.

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/ff80**********************************d71/originhost?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "origin_host" : {
    "domain_id" : "ff80**********************************d71",
    "origin_host_type" : "customize",
    "customize_domain" : "www.example.com"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.2 Statistics Analysis

5.2.1 Querying the Total Network Traffic

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

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The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, one hour or one day (00:00:00) intervals are allowed. If the time span is less than 7 days, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the time span is longer than 7 days but shorter than 31 days, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query the total network traffic.

URI

GET /v1.0/cdn/statistics/flux

Request

Request parameters

Table 5-102 describes the request parameters.

Table 5-102 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/flux?
start_time=1498838400000&end_time=1502380500000&domain_name=www.example1.com&enterprise_project_id=0
```

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Response

Response parameters

Table 5-103 describes the response parameter.

Table 5-103 Response parameter

Parameter	Type	Description
flux	Object	Queried data objects. For details, see Table 5-104.

flux parameter description

Table 5-104 describes the parameters.

Table 5-104 flux parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
value	Integer	Total traffic, in bytes.
stat_type	String	Statistics type.

Example response

```
{
  "flux": {
        "value": 5631,
        "start_time": 1498838400000,
        "end_time": 1502380500000,
        "stat_type":"flux"
    }
}
```

Status Codes

See Status Codes.

Error Codes

See Error Codes.

5.2.2 Querying Details of Network Traffic

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

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The start time and end time must be specified at the same time. Their values must be precise down to the millisecond. If the sampling interval is less than or equal to 1 hour, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the sampling interval is longer than 1 hour, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query details of network traffic.

URI

GET /v1.0/cdn/statistics/flux-detail

Request

Request parameters

Table 5-105 describes the request parameters.

Table 5-105 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
interval	No	Integer	Sampling interval, in seconds. For a time span of 1 day, the value can be 5 minutes, 1 hour, 4 hours, or 8 hours. For a time span of 2 to 7 days, the value can be 5 minutes, 1 hour, 4 hours, 8 hours, or 1 day. For a time span of 8 to 31 days, the value can be 4 hours, 8 hours, or 1 day. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default. If you need to specify it in the request, convert the interval into seconds.

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Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/flux-detail?start_time=1534176000000&end_time=1534258800000&domain_name=www.example.com&interval=300&enterprise_project_id=0
```

Response

Response parameters

Table 5-106 describes the response parameter.

Table 5-106 Response parameter

Parameter	Type	Description
flux_detail	Object	Detailed data. For details, see **Table 5-107**.

flux_detail parameter description

Table 5-107 describes the parameters.

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Table 5-107 flux_detail parameter description

Parameter	Type	Description
interval	Integer	Sampling interval, in seconds. For a time span of 1 day, the sampling intervals can be 5 minutes, 1 hour, 4 hours, and 8 hours. That is to say, the values can be **300**, **3600**, **14400**, and **28800**. For a time span of 2 to 7 days, the sampling intervals can be 1 hour, 4 hours, 8 hours, and 1 day. That is to say, the values can be **3600**, **14400**, **28800**, and **86400**. For a time span of 8 to 31 days, the sampling intervals can be 4 hours, 8 hours, and 1 day. That is to say, the values can be **14400**, **28800**, and **86400**. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
stat_type	String	Statistics type.
values	Array of integers	Values of traffic data. The values are displayed in chronological order from the point of **start_time** (unit: byte).

Example response

```
{
  "flux_detail": {
        "interval": 300,
        "values": [835038583,835038584],
        "start_time": 1534176000000,
        "end_time": 1534258800000,
        "stat_type" : "flux"
    }
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.3 Querying the Peak Bandwidth Value

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

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You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, one hour or one day (00:00:00) intervals are allowed. If the time span is less than 7 days, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the time span is longer than 7 days but shorter than 31 days, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query the peak bandwidth value.

URI

GET /v1.0/cdn/statistics/bandwidth

Request

Request parameters

Table 5-108 describes the request parameters.

Table 5-108 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/bandwidth?
start_time=1534176000000&end_time=1534258500000&domain_name=www.example.com&enterprise_project_id=0
```

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Response

Response parameters

Table 5-109 describes the response parameter.

Table 5-109 Response parameter

Parameter	Type	Description
bandwidth	Object	Queried data objects. For details, see Table 5-110.

bandwidth parameter description

Table 5-110 describes the parameters.

Table 5-110 bandwidth parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
stat_type	String	Statistics type.
value	Integer	Peak value, in bit/s.

Example response

```
{
  "bandwidth": {
        "value": 5277,
        "start_time": 1498838400000,
        "end_time": 1502380500000,
        "stat_type" : "bw"
    }
}
```

Status Codes

See Status Codes.

Error Codes

See Error Codes.

5.2.4 Querying Details of Network Bandwidth

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

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The start time and end time must be specified at the same time. Their values must be precise down to the millisecond. If the sampling interval is less than or equal to 1 hour, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the sampling interval is longer than 1 hour, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query details of the network bandwidth.

The minimum time span supported is one hour.

URI

GET /v1.0/cdn/statistics/bandwidth-detail

Request

Request parameters

Table 5-111 describes the request parameters.

Table 5-111 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.

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Parameter	Mandatory	Type	Description
interval	No	Integer	Sampling interval, in seconds. For a time span of 1 day, the value can be 5 minutes, 1 hour, 4 hours, or 8 hours. For a time span of 2 to 7 days, the value can be 5 minutes, 1 hour, 4 hours, 8 hours, or 1 day. For a time span of 8 to 31 days, the value can be 4 hours, 8 hours, or 1 day. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default. If you need to specify it in the request, convert the interval into seconds.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/bandwidth-detail?start_time=1498838400000&end_time=1502380500000&domain_name=www.example.com&interval=300&enterprise_project_id=0
```

Response

Response parameters

Table 5-112 describes the response parameter.

Table 5-112 Response parameter

Parameter	Type	Description
bandwidth_detail	Object	Detailed data. For details, see Table 5-113.

bandwidth parameter description

Table 5-113 describes the parameters.

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Table 5-113 bandwidth parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
stat_type	String	Statistics type.
interval	Integer	Sampling interval, in seconds.
values	Array of integers	Values of bandwidth data. The values are displayed in chronological order from the point of **start_time** (unit: bit/s).

Example response

```
{
  "bandwidth_detail": {
        "interval": 300,
        "values": [835038583,835038544],
        "start_time": 1498838400000,
        "end_time": 1502380500000,
        "stat_type" : "bw"
    }
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.5 Querying Consumption Summary

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, one hour or one day (00:00:00) intervals are allowed. If the time span is less than 7 days, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the time span is longer than 7 days but shorter than 31 days, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query summary information about specific domain names within a time range.

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URI

GET /v1.0/cdn/statistics/domain-summary

Request

Request parameters

Table 5-114 describes the request parameters.

Table 5-114 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
stat_type	Yes	String	Types of statistics: **bw** (bandwidth), **flux** (traffic), **bs_bw** (origin pull bandwidth), **bs_flux** (origin pull traffic), **req_num** (total number of requests), **req_hit_rate** (cache hit ratio), **flux_hit_rate** (traffic hit ratio), **bs_fail_rate** (origin pull failure rate), **qps** (requests per second), **http_code_2xx** (status code 2*xx*), **http_code_3xx** (status code 3*xx*), **http_code_4xx** (status code 4*xx*), and **http_code_5xx** (status code 5*xx*).
service_area	No	String	Valid values are **mainland_china** and **outside_mainland_china**. The default value is **mainland_china**. You cannot query origin pull metrics including **bs_flux**, **bs_bw**, and **bs_fail_rate** by service area.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

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```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-summary?
start_time=1513094400000&end_time=1513180799346&domain_name=example3.example2.example1.com&
interval=300&stat_type=flux&enterprise_project_id=0
```

Response

Response parameters

Table 5-115 describes the response parameter.

Table 5-115 Response parameter

Parameter	Type	Description
domain_summary	Object	Queried data objects. For details, see Table 5-116.

domain_summary parameter description

Table 5-116 describes the parameters.

Table 5-116 domain_summary parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
value	Integer	Total value of a metric (traffic unit: byte; bandwidth unit: bit/s).
stat_type	String	Statistics type.
service_area	String	Possible values are **mainland_china** (Chinese mainland) and **outside_mainland_china** (outside the Chinese mainland). You cannot query origin pull metrics by service area.

Example response

```
{
  "domain_summary": {
        "value": 835038584,
        "start_time": 1513094400000,
        "end_time": 1513180799346,
        "stat_type": "flux",
        "service_area": "mainland_china"
    }
}
```

Status Codes

See **Status Codes**.

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Error Codes

See **Error Codes**.

5.2.6 Querying Consumption Details

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond. If the sampling interval is less than or equal to 1 hour, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the sampling interval is longer than 1 hour, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query consumption details about specific domain names within a time range.

URI

GET /v1.0/cdn/statistics/domain-summary-detail

Request

Request parameters

Table 5-117 describes the request parameters.

Table 5-117 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried. A maximum of 100 domain names can be queried at a time.

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Parameter	Mandatory	Type	Description
interval	No	Integer	Sampling interval, in seconds. For a time span of 1 day, the sampling intervals can be 5 minutes, 1 hour, 4 hours, and 8 hours. That is to say, the values can be **300**, **3600**, **14400**, and **28800**. For a time span of 2 to 7 days, the sampling intervals can be 5 minutes, 1 hour, 4 hours, 8 hours, and 1 day. That is to say, the values can be **300**, **3600**, **14400**, **28800**, and **86400**. For a time span of 8 to 31 days, the sampling intervals can be 4 hours, 8 hours, and 1 day. That is to say, the values can be **14400**, **28800**, and **86400**. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
stat_type	Yes	String	Types of statistics: **bw** (bandwidth), **flux** (traffic), **bs_bw** (origin pull bandwidth), **bs_flux** (origin pull traffic), **bs_num** (total number of origin pulls), **bs_fail_num** (total number of failed origin pulls), **req_num** (total number of requests), **req_hit_rate** (cache hit ratio), **flux_hit_rate** (traffic hit ratio), **bs_fail_rate** (origin pull failure rate), **qps** (requests per second), **http_code_2xx** (status code 2*xx*), **http_code_3xx** (status code 3*xx*), **http_code_4xx** (status code 4*xx*), and **http_code_5xx** (status code 5*xx*).
service_area	No	String	Valid values are **mainland_china** and **outside_mainland_china**. The default value is **mainland_china**. You cannot query origin pull metrics including **bs_flux**, **bs_bw**, and **bs_fail_rate** by service area.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

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```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-summary-detail?
start_time=1498838400000&end_time=1502380500000&domain_name=www.example.com&interval=300&st
at_type=bs_flux&enterprise_project_id=0
```

Response

Response parameters

Table 5-118 describes the response parameter.

Table 5-118 Response parameter

Parameter	Type	Description
domain_summary_detail	Object	Detailed data. For details, see Table 5-119.

domain_summary_detail parameter description

Table 5-119 describes the parameters.

Table 5-119 domain_summary_detail parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
interval	Integer	Sampling interval, in seconds.
values	Array of integers	Array of sampling points. Each sampling point is generated at every sampling interval. The type of each sampling point is **long**. The traffic unit is byte. The bandwidth unit is bit/s.
stat_type	String	Statistics type.
service_area	String	Possible values are **mainland_china** (Chinese mainland) and **outside_mainland_china** (outside the Chinese mainland). You cannot query origin pull metrics by service area.

Example response

```
{
  "domain_summary_detail": {
        "interval": 300,
        "values": [835038583,835038584],
        "start_time": 1498838400000,
        "end_time": 1502380500000,
        "stat_type": "bs_flux",
        "service_area": "outside_example_china"
```

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```
  }
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.7 Querying Consumption of Each Domain Name

You can query data within the past 90 days.

The time span ranges from 1 hour to 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, one hour or one day (00:00:00) intervals are allowed. If the time span is less than 7 days, the time granularity must be one hour, for example, 2020-07-01 08:00:00 and 2020-07-01 09:00:00. If the time span is longer than 7 days but shorter than 31 days, the time granularity must be a whole day, for example, 2020-07-01 00:00:00 and 2020-07-02 00:00:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query summary information about each domain name within a time range.

URI

GET /v1.0/cdn/statistics/domain

Request

Request parameters

Table 5-120 describes the request parameters.

Table 5-120 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. A list contains up to 20 domain names.
stat_type	Yes	String	Types of statistics: **bw** (bandwidth), **flux** (traffic), **bs_bw** (origin pull bandwidth), **bs_flux** (origin pull traffic), **bs_num** (total number of origin pulls), **bs_fail_num** (total number of failed origin pulls), **req_num** (total number of requests), **req_hit_rate** (cache hit ratio), **flux_hit_rate** (traffic hit ratio), **bs_fail_rate** (origin pull failure rate), **qps** (requests per second), **http_code_2xx** (status code 2*xx*), **http_code_3xx** (status code 3*xx*), **http_code_4xx** (status code 4*xx*), and **http_code_5xx** (status code 5*xx*).
service_area	No	String	Valid values are **mainland_china** and **outside_mainland_china**. The default value is **mainland_china**. You cannot query origin pull metrics including **bs_flux**, **bs_bw**, and **bs_fail_rate** by service area.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain?
start_time=1513094400000&end_time=1513180799346&domain_name=example1.example2.com,example3.example4.com&interval=300&stat_type=flux&enterprise_project_id=0
```

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Response

Response parameters

Table 5-121 describes the response parameter.

Table 5-121 Response parameter

Parameter	Type	Description
domain	Object	Domain name statistics. For details, see Table 5-122.

domain parameter description

Table 5-122 describes the parameters.

Table 5-122 domain parameter description

Parameter	Type	Description
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
value	Integer	Queried total traffic. The traffic unit is byte. The bandwidth unit is bit/s.
stat_type	String	Statistics type.
domain_name	String	Domain name.
service_area	String	Possible values are **mainland_china** (Chinese mainland) and **outside_mainland_china** (outside the Chinese mainland). You cannot query origin pull metrics by service area.

Example response

```
{
   "domain":
    [
      {
         "value": 197400,
         "start_time": 1513094400000,
         "end_time": 1513180799346,
         "stat_type": "flux",
         "domain_name": "example1.example2.com",
         "service_area": "mainland_china"
      },
      {
         "value": 42825,
```

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```
            "start_time": 1513094400000,
            "end_time": 1513180799346,
            "stat_type": "flux",
            "domain_name": "example3.example4.com",
            "service_area": "mainland_china"
        }
    ]
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.8 Querying Domain Consumption by Region

You can query data within the past 90 days.

The time span of data queried cannot exceed 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, 5-minute, 1-hour, or 4-hour intervals are allowed. If the time span is less than or equal to one day, the time granularity is 5 minutes, for example, 2020-07-01 08:05:00 and 2020-07-01 08:10:00. If the time span is longer than 1 day but shorter than or equal to 7 days, the time granularity is 1 hour. If the time span is longer than 7 days, the time granularity is 4 hours.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query the consumption of domain names by region within a time range.

URI

GET /v1.0/cdn/statistics/region-detail-summary

Request

Request parameters

Table 5-123 describes the request parameters.

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Table 5-123 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
stat_type	Yes	String	Statistic types, including **flux** (traffic), **bw** (bandwidth), and **req_num** (total requests).
region	No	String	Region list, which covers the 34 provincial-level divisions (including Hong Kong, Macao, and Taiwan) of China, regions outside China, and others. Separate these regions with commas (,). For example, **beijing,neimenggu**. **NOTE** • Use Chinese Pinyin for a region name, for example **beijing** (Beijing), **shanghai** (Shanghai), and **gangaotai** (Hong Kong, Macao, and Taiwan). Use **haiwai** for regions outside China. • Use **shanxi** for Shanxi and **shaanxi** for Shaanxi. If this parameter is set to **ALL** or is not carried in a request, all regions are queried.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

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Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/region-detail-summary?
start_time=1511366400000&end_time=1511452799640&domain_name=ALL&stat_type=req_num&region=bei
jing,neimenggu&enterprise_project_id=0
```

Response

Response parameters

Table 5-124 describes the response parameter.

Table 5-124 Response parameter

Parameter	Type	Description
region_data	Array of objects	Region list. For details, see Table 5-125.

region_data parameter description

Table 5-125 describes the parameters.

Table 5-125 region_data parameter description

Parameter	Type	Description
region	String	Region.
value	Integer	Value of the queried metric. The traffic unit is byte. The bandwidth unit is bit/s.

Example response

```
{
  "region_data":
  [
    {
      "region": "beijing",
      "value": 586
    },
    {
      "region": "neimenggu",
      "value": 862
    }
  ]
}
```

Status Codes

See Status Codes.

Error Codes

See Error Codes.

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5.2.9 Querying Domain Consumption by Carrier

You can query data within the past 90 days.

The time span of data queried cannot exceed 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, 5 minute, 1 hour, or 4 hour intervals are allowed. If the time span is less than or equal to one day, the time granularity is 5 minutes, for example, 2020-07-01 08:05:00 and 2020-07-01 08:10:00. If the time span is longer than 1 day but shorter than or equal to 7 days, the time granularity is 1 hour. If the time span is longer than 7 days, the time granularity is 4 hours.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query the consumption of domain names by carrier within a time range.

URI

GET /v1.0/cdn/statistics/carrier-detail-summary

Request

Request parameters

Table 5-126 describes the request parameters.

Table 5-126 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
stat_type	Yes	String	Statistic types, including **flux** (traffic), **bw** (bandwidth), and **req_num** (total requests).

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Parameter	Mandatory	Type	Description
carrier	Yes	String	Carrier list. Abbreviated names of the carriers are used here. Currently, valid values are **CTCC** (China Telecom), **CUCC** (China Unicom), **ENET** (China Education and Research Network), **CMCC** (China Mobile), and **CRC** (Tietong). The carrier names are separated by commas (,). For example, **CTCC,CMCC**. The value **ALL** indicates that all carriers are queried.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/carrier-detail-summary?start_time=1511366400000&end_time=1511452799640&domain_name=ALL&stat_type=req_num&carrier=CMCC,CTCC&enterprise_project_id=0
```

Response

Response parameters

Table 5-127 describes the response parameter.

Table 5-127 Response parameter

Parameter	Type	Description
carrier_data	Array of objects	Carrier data. For details, see Table 5-128.

carrier_data parameter description

Table 5-128 describes the parameters.

Table 5-128 carrier_data parameter description

Parameter	Type	Description
carrier	String	Carrier.

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Parameter	Type	Description
value	Integer	Value of the queried metric. The traffic unit is byte. The bandwidth unit is bit/s.

Example response

```
{
 "carrier_data":
  [
    {
      "carrier":"CMCC",
      "value": 857
     },
    {
      "carrier": "CTCC",
      "value": 545
    }
  ]
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.10 Querying Statistics About Each Domain Name Under a Region or Carrier

You can query data within the past 90 days.

The time span of data queried cannot exceed 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. Their values must be precise down to the millisecond, but exact, 5 minute, 1 hour, or 4 hour intervals are allowed. If the time span is less than or equal to one day, the time granularity is 5 minutes, for example, 2020-07-01 08:05:00 and 2020-07-01 08:10:00. If the time span is longer than 1 day but shorter than or equal to 7 days, the time granularity is 1 hour. If the time span is longer than 7 days, the time granularity is 4 hours.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

Function

This API is used to query statistics about each domain name under a specified carrier in a specified region and specified period.

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URI

GET /v1.0/cdn/statistics/region-carrier-domain

Request

Request parameters

Table 5-129 describes the request parameters.

Table 5-129 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds. You must specify both **end_time** and **start_time**, or neither of them.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
stat_type	Yes	String	Statistic types, including **flux** (traffic), **bw** (bandwidth), and **req_num** (total requests).
region	Yes	String	Region list, which covers the 34 provincial-level divisions (including Hong Kong, Macao, and Taiwan) of China, regions outside China, and others. Separate these regions with commas (,). For example, **beijing,neimenggu**. **NOTE** • Use Chinese Pinyin for a region name, for example **beijing** (Beijing), **shanghai** (Shanghai), and **gangaotai** (Hong Kong, Macao, and Taiwan). Use **haiwai** for regions outside China. • Use **shanxi** for Shanxi and **shaanxi** for Shaanxi. The value **ALL** indicates that all regions are queried.

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Parameter	Mandatory	Type	Description
carrier	Yes	String	Carrier list. Abbreviated names of the carriers are used here. Currently, valid values are **CTCC** (China Telecom), **CUCC** (China Unicom), **ENET** (China Education and Research Network), **CMCC** (China Mobile), and **CRC** (Tietong). The carrier names are separated by commas (,). For example, **CTCC,CMCC**. The value **ALL** indicates that all carriers are queried. **region** and **carrier** cannot both be set to **ALL**.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/region-carrier-domain?start_time=1511366400000&end_time=1511452799640&domain_name=www.test1.com&stat_type=req_num&region=beijing,neimenggu&carrier=CMCC&enterprise_project_id=0
```

Response

Response parameters

Table 5-130 describes the response parameter.

Table 5-130 Response parameter

Parameter	Type	Description
domain	Object	Detailed data. For details, see Table 5-131.

domain parameter description

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Table 5-131 describes the parameters.

Table 5-131 domain parameter description

Parameter	Type	Description
domain_name	String	Domain name.
value	Integer	Value of the queried metric. The traffic unit is byte. The bandwidth unit is bit/s.

Example response

```
{
  "domain":
    [
      {
        "domain_name": "www.test1.com",
        "value": 566
      },
      {
        "domain_name": "www.test2.com",
        "value": 545
      }
    ]
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.2.11 Querying Statistics About Domain Names Under a Region or Carrier

You can query data within the past 90 days.

The time span of data queried cannot exceed 31 days.

You can specify up to 100 domain names at a query.

The start time and end time must be specified at the same time. The start time and end time must be precise down to the millisecond, but only exact sampling intervals are allowed. For example, if the sampling interval is 5 minutes, the start time and end time can be 2020-07-01 08:05:00 and 2020-07-01 08:10:00.

If the start time and end time do not meet the requirements, the returned data may be different from what was expected.

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Function

This API is used to query the statistics of domain names under a specified carrier in a specified region and specified time period.

URI

GET /v1.0/cdn/statistics/region-carrier-detail

Request

Request parameters

Table 5-132 describes the request parameters.

Table 5-132 Request parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Query start timestamp, in milliseconds.
end_time	No	Long	Query end timestamp, in milliseconds.
domain_name	Yes	String	Domain name list. Use commas (,) to separate domain names, for example, **www.test1.com,www.test2.com**. The value **ALL** indicates that all domain names under a tenant are queried.
stat_type	Yes	String	Statistic types, including **flux** (traffic), **bw** (bandwidth), and **req_num** (total requests).

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Parameter	Mandatory	Type	Description
region	Yes	String	Region list, which covers the 34 provincial-level divisions (including Hong Kong, Macao, and Taiwan) of China, regions outside China, and others. Separate these regions with commas (,). For example, **beijing,neimenggu**. **NOTE** • Use Chinese Pinyin for a region name, for example **beijing** (Beijing), **shanghai** (Shanghai), and **gangaotai** (Hong Kong, Macao, and Taiwan). Use **haiwai** for regions outside China. • Use **shanxi** for Shanxi and **shaanxi** for Shaanxi. The value **ALL** indicates that all regions are queried.
carrier	Yes	String	Carrier list. Abbreviated names of the carriers are used here. Currently, valid values are **CTCC** (China Telecom), **CUCC** (China Unicom), **ENET** (China Education and Research Network), **CMCC** (China Mobile), and **CRC** (Tietong). The carrier names are separated by commas (,). For example, **CTCC,CMCC**. The value **ALL** indicates that all carriers are queried. **region** and **carrier** cannot both be set to **ALL**.

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Parameter	Mandatory	Type	Description
interval	No	Integer	Sampling interval, in seconds. For a time span of 1 day, the value can be 5 minutes, 1 hour, 4 hours, or 8 hours. For a time span of 2 to 7 days, the value can be 5 minutes, 1 hour, 4 hours, 8 hours, or 1 day. For a time span of 8 to 31 days, the value can be 4 hours, 8 hours, or 1 day. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default. If you need to specify it in the request, convert the interval into seconds.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Example request

Requested path

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/region-carrier-detail?start_time=1559318400000&end_time=1559577600000&domain_name=www.test1.com,www.test2.com,www.test3.com,www.test4.com&stat_type=req_num&region=beijing&carrier=CMCC&interval=86400&enterprise_project_id=0
```

Response

Response parameters

Table 5-133 describes the response parameters.

Table 5-133 Response parameters

Parameter	Type	Description
region	Array of strings	Region.

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Parameter	Type	Description
carrier	Array of strings	Carrier.
start_time	Integer	Query start timestamp, in milliseconds.
end_time	Integer	Query end timestamp, in milliseconds.
stat_type	String	Statistic types, including **flux** (traffic), **bw** (bandwidth), and **req_num** (total requests).
interval	Integer	Sampling interval.
values	Array of integers	Return value of a query. Data of a certain period of time is displayed based on the query time granularity. The values are separated by commas (,). The traffic unit is byte. The bandwidth unit is bit/s. **NOTE** If multiple domain names are queried, the returned value is the total query results of all domain names.

Example response

```
{
    "region": [
        "beijing"
    ],
    "carrier": [
        "all"
    ],
    "start_time": 1559318400000,
    "end_time": 1559577600000,
    "stat_type": "req_num",
    "values": [
        66,
        64,
        68
    ],
    "interval": 86400
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

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5.2.12 Querying Statistics About Domain Names by Region and Carrier

Function

- You can query data within the past 90 days.
- The query time span is 7 days.
- You can specify up to 100 domain names at a query.
- The start time and end time must be both specified.
- The start time and end time must be timestamps in milliseconds. Only exact 5-minute intervals are allowed, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the values are not exact 5-minute intervals, the returned data may not be the expected data.
- If the start time is 2019-01-24 20:15:00, the statistics in [20:15:00, 20:20:00) are collected.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity.
- You can query statistics about specific domain names and details about specific metrics.
- If multiple domain names are passed, the data of each domain name is returned separately.
- You can query statistics by region and carrier, except origin pull statistics.
- You can query up to 10 metrics each time.
- This API is not applicable to domain names whose service area is outside the Chinese mainland.

URI

GET /v1.0/cdn/statistics/domain-item-location-details

Table 5-134 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
start_time	Yes	Long	Query start time (timestamp). Only exact 5-minute intervals are allowed.

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Parameter	Mandatory	Type	Description
end_time	Yes	Long	Query end time (timestamp). Only exact 5-minute intervals are allowed.
domain_name	Yes	String	Domain name list. Domain names are separated by commas (,), for example, **www.test1.com,www.test2.com**. The value **all** indicates that all domain names under your account are queried.
stat_type	Yes	String	Metric types. • Network resource consumption statistics – **bw** (bandwidth) – **flux** (traffic) – **ipv6_bw** (IPv6 bandwidth) – **ipv6_flux** (IPv6 traffic) – **https_bw** (HTTPS bandwidth) – **https_flux** (HTTPS traffic) • Access statistics – **req_num** (total number of requests) – **hit_num** (number of hits) – **req_time** (request duration) • HTTP status code statistics (one or more types can be returned) – **status_code_2xx** (status codes 2*xx*) – **status_code_3xx** (status codes 3*xx*) – **status_code_4xx** (status codes 4*xx*) – **status_code_5xx** (status codes 5*xx*)

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Parameter	Mandatory	Type	Description
region	Yes	String	Region list. Regions are separated by commas (,). The value **all** indicates that all regions are queried.
isp	Yes	String	Carrier list. Carriers are separated by commas (,). The value **all** indicates that all carriers are queried.

Request Parameters

Table 5-135 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-136 Response body parameter

Parameter	Type	Description
domain_item_location_details	**DomainItemLocationDetails** object	Domain name details.

Table 5-137 DomainItemLocationDetails

Parameter	Type	Description
start_time	Long	Time when data collection starts (timestamp). The time may be different from the request time.

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Parameter	Type	Description
end_time	Long	Time when data collection ends (timestamp). The time may be different from the request time.
stat_type	String	Metric type.
domains	Array of DomainRegion objects	Domain name details.

Table 5-138 DomainRegion

Parameter	Type	Description
domain_name	String	Domain name.
region_isp_details	Array of Map<String,Object> objects	Metric data. If there is no data in the query time segment, an empty array **[]** is returned.

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-item-location-details?start_time=1515996000000&end_time=1515999600000&domain_name=www.test1.com,www.test2.com&stat_type=flux&region=sichuan,guizhou&isp=dianxin
```

Example Response

Status code: 200

OK

```
{
  "domain_item_location_details" : {
    "start_time" : 1515996000000,
    "end_time" : 1515999600000,
    "stat_type" : "flux",
    "domains" : [ {
      "domain_name" : "www.test1.com",
      "region_isp_details" : [ {
        "region" : "sichuan",
        "isp" : "dianxin",
        "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
      }, {
        "region" : "guizhou",
        "isp" : "dianxin",
        "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
      } ]
    }, {
      "domain_name" : "www.test2.com",
      "region_isp_details" : [ {
        "region" : "sichuan",
        "isp" : "dianxin",
        "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
      }, {
        "region" : "guizhou",
```

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```
      "isp" : "dianxin",
      "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
    } ]
  } ]
 }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.2.13 Querying Statistics About Domain Names

Function

- You can query data within the past 90 days.
- The time span of data queried cannot exceed 7 days.
- You can specify up to 100 domain names at a query.
- The start time and end time must be both specified.
- The start time and end time must be timestamps in milliseconds. Only exact 5-minute intervals are allowed, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the values are not exact 5-minute intervals, the returned data may not be the expected data.
- If the start time is 2019-01-24 20:15:00, the statistics in [20:15:00, 20:20:00) are collected.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity. You can query statistics about specific domain names and details about specific metrics.
- If multiple domain names are passed, the data of each domain name is returned separately.
- You can query up to 10 metrics each time.

URI

GET /v1.0/cdn/statistics/domain-item-details

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Table 5-139 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
start_time	Yes	Long	Query start time (timestamp). Only exact 5-minute intervals are allowed.
end_time	Yes	Long	Query end time (timestamp). Only exact 5-minute intervals are allowed.
domain_name	Yes	String	Domain name list. Domain names are separated by commas (,), for example, **www.test1.com,www.test2.com**. The value **all** indicates that all domain names under your account are queried.
service_area	No	String	Possible values are **mainland_china** and **outside_mainland_china**. The default value is **mainland_china**.

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Parameter	Mandatory	Type	Description
stat_type	Yes	String	Network resource consumption statistics • **bw** (bandwidth) • **flux** (traffic) • **bs_bw** (retrieval bandwidth) • **bs_flux** (retrieval traffic) Access statistics • **req_num** (number of requests) • **hit_num** (number of hits) • **bs_num** (number of content retrieval requests) • **bs_fail_num** (number of failed content retrieval requests) • **hit_flux** (traffic generated by requests that hit the caches) HTTP status code statistics (one or more types can be returned) • **http_code_2xx** (status codes 2*xx*) • **http_code_3xx** (status codes 3*xx*) • **http_code_4xx** (status codes 4*xx*) • **http_code_5xx** (status codes 5*xx*) • **bs_http_code_2xx** (origin status codes 2*xx*) • **bs_http_code_3xx** (origin status codes 3*xx*) • **bs_http_code_4xx** (origin status codes 4*xx*) • **bs_http_code_5xx** (origin status codes 5*xx*) • **status_code_2xx** (details of status code 2*xx*) • **status_code_3xx** (details of status code 3*xx*) • **status_code_4xx** (details of status code 4*xx*)

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Parameter	Mandatory	Type	Description
			• **status_code_5xx** (details of status code 5*xx*) • **bs_status_code_2xx** (details of origin status code 2*xx*) • **bs_status_code_3xx** (details of origin status code 3*xx*) • **bs_status_code_4xx** (details of origin status code 4*xx*) • **bs_status_code_5xx** (details of origin status code 5*xx*) • **status_code** and **bs_status_code** statistics cannot be queried at the same time. Otherwise, statistics will be inaccurate. You cannot query **status_code** statistics by region.

Request Parameters

Table 5-140 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

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Table 5-141 Response body parameter

Parameter	Type	Description
domain_item_details	**DomainItemDetail** object	Domain name details.

Table 5-142 DomainItemDetail

Parameter	Type	Description
start_time	Long	Time when data collection starts (timestamp). The time may be different from the request time.
end_time	Long	Time when data collection ends (timestamp). The time may be different from the request time.
stat_type	String	Metric type.
domains	Array of Map<String,Object> objects	Metric data. If there is no data in the query time segment, an empty array **[]** is returned.

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/domain-item-details?start_time=1515996000000&end_time=1515999600000&domain_name=www.test1.com,www.test2.com&stat_type=flux
```

Example Response

Status code: 200

OK

```
{
  "domain_item_details" : {
    "start_time" : 1515996000000,
    "end_time" : 1515999600000,
    "stat_type" : "flux",
    "domains" : [ {
      "domain_name" : "www.test1.com",
      "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
    }, {
      "domain_name" : "www.test2.com",
      "flux" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 ]
    } ]
  }
}
```

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Status Codes

Status Code	Description
200	OK

Error Codes

See **Error Codes**.

5.2.14 Downloading a Statistical Metric Table

Function

- This API is used to download a statistical metric table.
- You can download metric data generated within the past 90 days.
- The time span of data queried cannot exceed 31 days.
- If the start time is 2022-10-24 00:00:00 and end time is 2022-10-25 00:00:00, the statistics in [2022-10-24 00:00:00, 2022-10-25 00:00:00) are queried.
- The start time and end time must be timestamps in milliseconds. They must be both specified.
- A single tenant can call this API 10 times per minute.

URI

GET /v1.0/cdn/statistics/statistics-excel

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Table 5-143 Query parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **start_time** to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If **interval** is set to **3600**, set **start_time** to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If **interval** is set to **86400**, set **start_time** to 00:00:00 GMT+08:00, for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **end_time** to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If **interval** is set to **3600**, set **end_time** to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If **interval** is set to **86400**, set **end_time** to 00:00:00 GMT+08:00, for example, **1631376000000** (2021-09-12 00:00:00).
domain_name	Yes	String	Domain name list. Domain names are separated by commas (,), for example, **www.test1.com,www.test2.com**. The value **all** indicates that all domain names under your account are queried.

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Parameter	Mandatory	Type	Description
excel_language	No	String	Language of the table to be created. The value can be **zh** (Chinese) or **en** (English). If this parameter is not passed, the default value **zh** is used.
service_area	No	String	Service region. The value can be **mainland_china** (default) or **outside_mainland_china**. This parameter is invalid for querying origin pull metrics.
interval	No	Long	• Query interval, in seconds. • **300** (5 minutes): The maximum query time span is two days. • **3600** (1 hour): The maximum query time span is 7 days. • **86400** (1 day): The maximum query time span is 31 days. • If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

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Parameter	Mandatory	Type	Description
excel_type	Yes	String	Type of the statistics table. Currently, the following types are supported: • **excel_type_usage**: utilization statistics. • **excel_type_access**: access statistics. • **excel_type_origin**: origin pull statistics. • **excel_type_http_code**: HTTP code statistics.

Request Parameters

None

Response Parameters

None

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/statistics-excel?
start_time=1667030400000&end_time_1667116800000&domain_name=www.test1.com&excel_language=zh
&service_area=mainland_china&interval=300&enterprise_project_id=all&excel_type=excel_type_usage
```

Example Response

None

Status Codes

Status Code	Description
200	Success response.
400	Error response.

Error Codes

See **Error Codes**.

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5.2.15 Querying Top Domain Names

Function

- This API is used to query top domain names.
- You can query data within the past 90 days.
- The query time span cannot exceed one day.
- The start time and end time must be both specified. For example, if the start time is 2022-10-24 00:00:00 and end time is 2022-10-25 00:00:00, the statistics in [2022-10-24 00:00:00, 2022-10-25 00:00:00) are queried.
- The start time and end time must be timestamps in milliseconds at the top of an hour.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity and status code–related metrics. You can query statistics about specific domain names and details about specific metrics.
- A single tenant can call this API five times per second.

URI

GET /v1/cdn/statistics/top-domain-names

Table 5-144 Query parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query, which must be at the top of an hour. • If **interval** is set to **3600**, set **start_time** to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If **interval** is set to **86400**, set **start_time** to 00:00:00 GMT+08:00, for example, **1631203200000** (2021-09-10 00:00:00).

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Parameter	Mandatory	Type	Description
end_time	Yes	Long	• End timestamp of the query, which must be at the top of an hour. • If **interval** is set to **3600**, set **end_time** to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If **interval** is set to **86400**, set **end_time** to 00:00:00 GMT+08:00, for example, **1631376000000** (2021-09-12 00:00:00).
stat_type	Yes	String	• Statistics type. • Currently, only **bw** (bandwidth), **flux** (traffic), and **req_num** (total number of requests) are supported.
service_area	No	String	Service region. The value can be **mainland_china** (default) or **outside_mainland_china**. This parameter is invalid for querying origin pull metrics.
limit	No	Integer	Number of top domain names to be queried. The default value is **20**, the maximum value is **500**, and the minimum value is **0**.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

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Table 5-145 Response body parameter

Parameter	Type	Description
top_domain_names	Array of Map<String,Object> objects	Top domain name information.

Status code: default

Table 5-146 Response body parameter

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 5-147 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/top-domain-names?
start_time=1667030400000&end_time_1667116800000&stat_type=bw&service_area=mainland_china&limit=
100&enterprise_project_id=all
```

Example Response

```
{
  "top_domain_names": [
    {
      "domain_name": "www.test1.com",
      "flux": 10000000
    },
    {
      "domain_name": "www.test2.com",
      "flux": 20000000
    },
    {
      "domain_name": "www.test3.com",
      "flux": 30000000
    }
  ]
}
```

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Status Codes

Status Code	Description
200	Success response.
default	Error response.

Error Codes

See **Error Codes**.

5.2.16 Querying Peak Bandwidth Data of a Domain Name

Function

- This API is used to query peak bandwidth data of a domain name.
- You can query data within the past 90 days.
- The query time span cannot exceed 31 days.
- If the start time is 2022-10-24 00:00:00 and end time is 2022-10-25 00:00:00, the statistics in [2022-10-24 00:00:00, 2022-10-25 00:00:00) are queried.
- The start time and end time must be timestamps in milliseconds. They must be both specified.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics and peak bandwidth-related metrics, and number of times for request quantity and status code-related metrics. You can query statistics about specific domain names and details about specific metrics.
- A single tenant can call this API twice per second.

URI

GET /v1.0/cdn/statistics/bandwidth-calc

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Table 5-148 Query parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **start_time** to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If **interval** is set to **3600**, set **start_time** to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If **interval** is set to **86400**, set **start_time** to 00:00:00 GMT+08:00, for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **end_time** to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If **interval** is set to **3600**, set **end_time** to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If **interval** is set to **86400**, set **end_time** to 00:00:00 GMT+08:00, for example, **1631376000000** (2021-09-12 00:00:00).
domain_name	Yes	String	Domain name list. Domain names are separated by commas (,), for example, **www.test1.com,www.test2.com**. The value **all** indicates that all domain names under your account are queried.

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Parameter	Mandatory	Type	Description
service_area	No	String	Service region. The value can be **mainland_china** (default) or **outside_mainland_china**. This parameter is invalid for querying origin pull metrics.
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
calc_type	Yes	String	Query type. Currently, **bw_95** (95th percentile bandwidth), **bw_peak** (average daily peak bandwidth), and **bw_95_average** (average daily 95th percentile bandwidth) are supported.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-149 Response body parameter

Parameter	Type	Description
bandwidth_calc	Map<String,Object>	95th percentile bandwidth and average daily peak bandwidth information.

Status code: 400

Table 5-150 Response body parameter

Parameter	Type	Description
error	**ErrMsg** object	Error code and error message.

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Table 5-151 ErrMsg

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/bandwidth_calc?
start_time=1667030400000&end_time_1667116800000&domain_name=www.test1.com&service_area=mainland_china&enterprise_project_id=all&calc_type=bw_peak
```

Example Response

```
{
  "bandwidth_calc": [
    {
      "value": 10000000,
      "calc_type": "bw_peak"
    },
    {
      "value": 20000000,
      "calc_type": "bw_peak"
    }
  ]
}
```

Status Codes

Status Code	Description
200	Success response.
400	Error response.

Error Codes

See **Error Codes**.

5.2.17 Downloading a Table of Statistics by Region and Carrier

Function

- This API is used to download a table of statistics by region and carrier.
- You can download metric data generated within the past 90 days.
- The time span of data queried cannot exceed 31 days.
- If the start time is 2022-10-24 00:00:00 and end time is 2022-10-25 00:00:00, the statistics in [2022-10-24 00:00:00, 2022-10-25 00:00:00) are queried.

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- The start time and end time must be timestamps in milliseconds. They must be both specified.
- A single tenant can call this API 10 times per minute.

URI

GET /v1.0/cdn/statistics/region-carrier-excel

Table 5-152 Query parameters

Parameter	Mandatory	Type	Description
start_time	Yes	Long	• Start timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **start_time** to a multiple of 5 minutes, for example, **1631240100000** (2021-09-10 10:15:00). • If **interval** is set to **3600**, set **start_time** to the top of an hour, for example, **1631239200000** (2021-09-10 10:00:00). • If **interval** is set to **86400**, set **start_time** to 00:00:00 GMT+08:00, for example, **1631203200000** (2021-09-10 00:00:00).
end_time	Yes	Long	• End timestamp of the query. The timestamp must be set to a multiple of 5 minutes. • If the value of **interval** is **300**, set **end_time** to a multiple of 5 minutes, for example, **1631243700000** (2021-09-10 11:15:00). • If **interval** is set to **3600**, set **end_time** to the top of an hour, for example, **1631325600000** (2021-09-11 10:00:00). • If **interval** is set to **86400**, set **end_time** to 00:00:00 GMT+08:00, for example, **1631376000000** (2021-09-12 00:00:00).

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Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name list. Domain names are separated by commas (,), for example, **www.test1.com,www.test2.com**. The value **all** indicates that all domain names under your account are queried.
interval	No	Long	• Query interval, in seconds. • **300** (5 minutes): The maximum query time span is two days. • **3600** (1 hour): The maximum query time span is 7 days. • **86400** (1 day): The maximum query time span is 31 days. • If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
country	No	String	• Country and region codes, which are separated by commas (,). The value **all** indicates all codes. For details about the values, see the appendix. • This parameter cannot be set when carrier statistics are queried. • This parameter cannot be set when top URL statistics are queried. • When accessing regional data, set this parameter to **cn** (China).
excel_language	No	String	Language of the table to be created. The value can be **zh** (Chinese) or **en** (English). If this parameter is not passed, the default value **zh** is used.

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Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.
excel_type	Yes	String	Type of the statistics table. Currently, the following types are supported: • **excel_type_usage**: regional utilization statistics. • **excel_type_access**: regional access statistics. • **excel_type_region**: region distribution statistics. • **excel_type_carrier**: statistics by region and carrier. • **excel_type_country**: country and region statistics. • **excel_type_top_url**: top URL statistics.
region	No	String	• Region. This parameter is valid only when **country** is set to **cn** (China). • This parameter cannot be set when carrier statistics are queried. • This parameter cannot be set when country and region statistics are queried. • This parameter cannot be set when top URL statistics are queried.

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Parameter	Mandatory	Type	Description
carrier	No	String	• Carrier code. • This parameter cannot be set when region distribution statistics are queried. • This parameter cannot be set when country and region statistics are queried. • This parameter cannot be set when top URL statistics are queried.

Request Parameters

None

Response Parameters

None

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/statistics/region-carrier-excel?start_time=1667030400000&end_time_1667116800000&domain_name=www.test1.com&interval=300&country=cn&excel_language=zh&enterprise_project_id=all&excel_type=excel_type_region&region=beijing&carrier=dianxin
```

Example Response

None

Status Codes

Status Code	Description
200	Success response.
400	Error response.

Error Codes

See **Error Codes**.

5.3 Refreshing and Preheating (Old Version)

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5.3.1 Creating a Cache Refreshing Task

Function

This API is used to create a cache refreshing task.

URI

POST /v1.0/cdn/refreshtasks

Table 5-153 lists the parameters.

Table 5-153 Parameter description

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project to which the cache refreshing task is added. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request

Request parameters

Table 5-154 describes the request parameters.

Table 5-154 Request parameters

Parameter	Mandatory	Type	Description
type	No	String	Type of cached content to be purged. The value is either **file** or **directory**. The default value is **file**.
urls	Yes	Array of strings	Value example: **http://abc.com/image/1.png**. Use commas (,) to separate URLs from each other. A single URL can contain a maximum of 10,240 characters. A maximum of 1,000 URLs can be entered at a time.

Example request

Requested path

POST https://cdn.myhuaweicloud.com/v1.0/cdn/refreshtasks?enterprise_project_id=0

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```
{
   "refreshTask":{
      "type":"file",
      "urls":[
         "http://www.example.com/index.html",
         "http://www.example.com/web"
      ]
   }
}
```

Response

Response parameters

Table 5-155 describes the response parameters.

Table 5-155 Response parameters

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type. The value is either **refresh** or **preheating**.
status	String	Task result. **task_done** indicates that the refreshing task succeeded. **task_inprocess** indicates that the refreshing task is being processed.
processing	Integer	Number of URLs being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of tasks.
create_time	Integer	Time when the task is created, which is expressed as milliseconds since 1970-01-01 00:00:00 Coordinated Universal Time (UTC).
urls	Array of strings	URLs that need to be purged.

Example response

```
{
  "refreshTask" : {
    "id" : "ff808**********************2b35",
    "status" : "task_inprocess",
    "processing" : 2,
    "succeed" : 0,
    "failed" : 0,
    "urls" : [ "http://www.example1.com/index.html", "http://www.example2.com/web" ],
    "task_type" : "refresh",
    "total" : 2,
    "create_time" : 0
  }
}
```

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Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.3.2 Creating a Cache Preheating Task

Function

This API is used to create a cache preheating task.

URI

POST /v1.0/cdn/preheatingtasks

Table 5-156 lists the parameters.

Table 5-156 Parameter description

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project to which the cache refreshing task is added. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request

Request parameters

Table 5-157 describes the request parameters.

Table 5-157 Request parameter

Parameter	Mandatory	Type	Description
urls	Yes	Array of strings	Value example: **http://abc.com/image/1.png**. Use commas (,) to separate URLs from each other. Preheating for directories is not available yet. A single URL can contain a maximum of 10,240 characters. 1,000 URLs can be entered at a time.

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Example request

Requested path

POST https://cdn.myhuaweicloud.com/v1.0/cdn/preheatingtasks?enterprise_project_id=0

```
{
   "preheatingTask":{
      "urls":[
         "http://www.example1.com/index.html",
         "http://www.example2.com/web"
         ]
      }
}
```

Response

Response parameters

Table 5-158 describes the response parameters.

Table 5-158 Response parameters

Parameter	Type	Description
id	String	Task ID.
task_type	String	Type of a task. The value is either **refresh** or **preheating**.
status	String	Task result. **task_done** indicates that the preheating task succeeded. **task_inprocess** indicates that the task is being preheated.
processing	Integer	Number of URLs being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of tasks.
create_time	Integer	Time when the task is created, which is expressed as milliseconds since 1970-01-01 00:00:00 Coordinated Universal Time (UTC).
urls	Array of strings	URLs that need to be prefetched.

Example response

```
{
  "preheatingTask" : {
    "id" : "ff8080**********************c6e",
    "status" : "task_inprocess",
    "processing" : 2,
    "succeed" : 0,
```

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```
    "failed" : 0,
    "urls" : [ "http://www.example1.com/index.html", "http://www.example2.com/web" ],
    "task_type" : "preheating",
    "total" : 2,
    "create_time" : 0
  }
}
```

Status Codes

See **Status Codes**.

Error Codes

See **Error Codes**.

5.4 Domain Name Operations

5.4.1 Querying Details About a Domain Name

Function

This API is used to query details about a domain name.

URI

GET /v1.0/cdn/domains/{domain_id}/detail

Table 5-159 Path parameter

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Domain name ID. For details about how to obtain the value, see the API for querying domain names.

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Table 5-160 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project that the resource belongs to. This parameter is valid only when the enterprise project function is enabled. The value **all** indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 5-161 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-162 Response body parameter

Parameter	Type	Description
domain	**DomainsWithPort** object	Domain name details.

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Table 5-163 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: **web** (website acceleration), **download** (file download acceleration), **video** (VOD acceleration), and **wholeSite** (whole site acceleration).
user_domain_id	String	Domain ID of the domain name's owner.
domain_status	String	Domain name status. Possible values: • **online**: CDN has been enabled for this domain name. • **offline**: CDN has been disabled for this domain name. • **configuring**: The domain name configuration is in progress. • **configure_failed**: The configuration fails. • **checking**: The domain is being reviewed. • **check_failed**: The domain name fails the review. • **deleting**: The domain name is being deleted.
cname	String	CNAME of the domain name.
sources	Array of **SourceWithPort** objects	Origin server address. The address type can be IP address or domain name. If the origin server address type is IP address, only IPv4 addresses are supported. If there are multiple IP addresses, multiple objects must be specified to pass these addresses respectively, and the values of the parameters except the IP address in these objects must be the same. Up to 15 IP addresses can be specified for the primary or standby origin server. If the origin server address type is domain name, only one domain name is supported. The address type can be either IP address or domain name.
domain_origin_host	**DomainOriginHost** object	Origin settings of the domain name.

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Parameter	Type	Description
https_status	Integer	Whether HTTPS is enabled. **0**: disabled. **1**: HTTPS is enabled and the origin protocol is same as the user request. **2**: HTTPS is enabled and the origin protocol is HTTP. **3**: HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name is created, which is expressed as milliseconds since 1970-01-01 00:00:00 Coordinated Universal Time (UTC).
modify_time	Long	Time when the domain name is modified, which is expressed as milliseconds since 1970-01-01 00:00:00 UTC.
disabled	Integer	Whether the domain name is banned. **0**: not banned; **1**: banned.
locked	Integer	Whether the domain name is locked. **0**: not locked; **1**: locked.
auto_refresh_preheat	Integer	Whether automatic refreshing and preheating are enabled. **0**: disabled; **1**: enabled.
service_area	String	Service area of the CDN service. **mainland_china**: Chinese mainland; **outside_mainland_china**: outside the Chinese mainland; **global**: global.
range_status	String	Whether range requests are supported. **off**: not supported. **on**: supported.
follow_status	String	Redirect from origin status. **off**: disabled. **on**: enabled.
origin_status	String	Origin pull status. **off**: disabled. **on**: enabled.
banned_reason	String	Reason for disabling the domain name. **1**: The domain name contains inappropriate content. **2**: The ICP license of the domain name has expired. **3**: The domain name is under attack. **150**: The domain name contains pornographic content. **151**: The domain name contains sensitive political content. **152**: The domain name contains violent content. **153**: The domain name contains gambling content.
locked_reason	String	Reason for locking the domain name.

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Parameter	Type	Description
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is used. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Table 5-164 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. **ipaddr**: IP address; **domain**: domain name; **obs_bucket**: OBS bucket.
active_standby	Integer	Whether the origin server is primary or standby. **1**: primary; **0**: standby. A primary origin server is mandatory, while a standby origin server is optional.
enable_obs_web_hosting	Integer	Whether static hosting is enabled for an OBS bucket. **0**: disabled; **1**: enabled. This parameter is passed only when **origin_type** is set to **obs_bucket**.
http_port	Integer	HTTP port. Default value: **80**.
https_port	Integer	HTTPS port. Default value: **443**.

Table 5-165 DomainOriginHost

Parameter	Type	Description
domain_id	String	Domain name ID. For details about how to obtain the value, see the API for querying domain names.
origin_host_type	String	Host type.

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Parameter	Type	Description
customize_domain	String	Custom host domain name for origin pull.

Example Request

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/domains/12a**********345d671/detail?enterprise_project_id=1
```

Example Response

Status code: 200

OK

```
{
  "domain" : {
    "sources" : [ {
      "domain_id" : "12a**********345d671",
      "origin_type" : "ipaddr",
      "ip_or_domain" : "10.62.53.75",
      "active_standby" : 1,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "cname" : "www.example1.com.c.example2.com",
    "id" : "12a**********345d671",
    "user_domain_id" : "1a23**********4a441",
    "domain_name" : "www.example1.com",
    "business_type" : "web",
    "service_area" : "mainland_china",
    "domain_status" : "online",
    "https_status" : 0,
    "create_time" : 1516861994806,
    "modify_time" : 1532405346365,
    "domain_origin_host" : {
      "domain_id" : "12a**********345d671",
      "origin_host_type" : "customize",
      "customize_domain" : "www.example4.com"
    },
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "on",
    "auto_refresh_preheat" : 0
  }
}
```

Status Codes

Status Code	Description
200	OK

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Error Codes

See **Error Codes**.

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6 Examples

6.1 Adding an Acceleration Domain Name

Description

This section describes how to add an acceleration domain name using an API. For details about how to call APIs, see **Calling APIs**.

Constraints

- CDN has been enabled for your HUAWEI ID.
- The API cannot be used to add acceleration domain names in batches.

Involved APIs

- If you use token-based authentication, obtain a token and add **X-Auth-Token** to the request header when calling an API.
- **Creating a Domain Name**

Procedure

1. **Obtain a user token** and use it for authentication when calling the API for adding an acceleration domain name. For details, see **Making an API Request**.
   - To obtain the username and domain name, log in to the Huawei Cloud management console, point to the account name in the upper right corner, and choose **My Credentials** from the drop-down list.
   - Request URL: **POST https://iam.myhuaweicloud.com/v3/auth/tokens**
   - Request header: **Content-Type: application/json**
   - Request body:

```
{
    "auth": {
    "identity": {
        "methods": ["password"],
        "password": {
            "user": {
```

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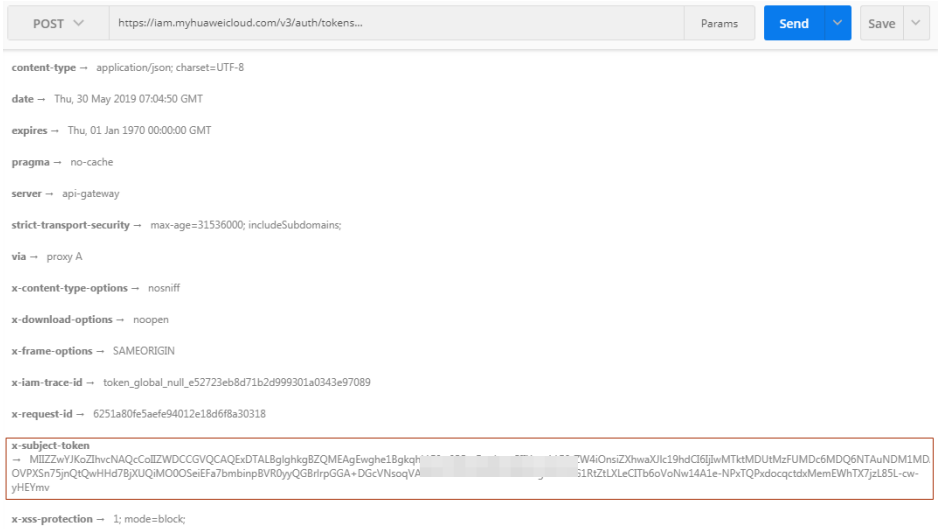
```
            "name": "name",          --Username
            "password": "password",       --Password
            "domain": {
                "name": "domainname"    --Name of the account to which the user belongs
            }
        }
    }
  },
  "scope": {
        "domain": {
            "name": "domainname"    --Name of the account to which the user belongs
    }
    }
  }
}
```

Information in the red box in **Figure 6-1** indicates the obtained user token.

Figure 6-1 Obtaining a user token



2. Select the POST request method and enter the request URI.

   ```
   POST  https://cdn.myhuaweicloud.com/v1.0/cdn/domains
   ```

3. Add **X-Auth-Token** to the request header. The value of **X-Auth-Token** is the value of **x-subject-token** in the header of the respond to the authentication request, as shown in the red box in **Figure 6-1**.
4. Specify the following parameters in the request body:

   ```
   {
      "domain": {
         "domain_name": "example1.example2.example3.com",
         "business_type": "web",
         "sources": [
            {
               "ip_or_domain": "192.168.53.75",
               "origin_type": "ipaddr",
               "active_standby":1
            }
         ],
      }
   }
   ```

   – For details about the parameters, see **Creating a Domain Name**.

   If the request is successful, information about the created domain name is returned.

   ```
   {
      "domain": {
   ```

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```
    "sources": [
      {
        "domain_id":"ff80************************07b",
        "ip_or_domain": "192.168.53.75",
        "origin_type": "ipaddr",
        "active_standby":1
      }
    ],
    "id": "ff80************************07b",
    "user_domain_id": "38**********************5024dcb",
    "domain_name": "example11.example2.example3.com",
    "business_type": "web",
    "cname": "example1.example2.example3.com.c.example4.com",
    "domain_status": "configuring",
    "https_status": null,
    "description": null,
    "create_time": 1513152634467,
    "modify_time": 1513152634467,
    "domain_origin_host": {
      "domain_id": "ff80************************07b",
      "origin_host_type": "customize",
      "customize_domain": "example5.example6.com"
    },
    "disabled": 0,
    "locked": 0
  }
}
```


If the request fails, an error code and error information are returned. For details, see **Error Codes**.

6.2 Creating a Cache Refreshing or Preheating Task

Description

This section describes how to create a cache refreshing or preheating task using APIs. For details about how to call APIs, see **Calling APIs**.

Involved APIs

- If you use token-based authentication, obtain a token and add **X-Auth-Token** to the request header when calling an API.
- **Creating a Cache Preheating Task**: Preheats origin server content to CDN nodes.
- **Creating a Cache Refreshing Task**: Refreshes cached content on CDN nodes.

Procedure

1. **Obtain a user token** and use it for authentication when calling the API for creating a cache preheating or refreshing task. For details, see **Making an API Request**.
   - To obtain the username and domain name, log in to the Huawei Cloud management console, point to the account name in the upper right corner, and choose **My Credentials** from the drop-down list.
   - Request URL: **POST https://iam.myhuaweicloud.com/v3/auth/tokens**
   - Request header: **Content-Type: application/json**
   - Request body:

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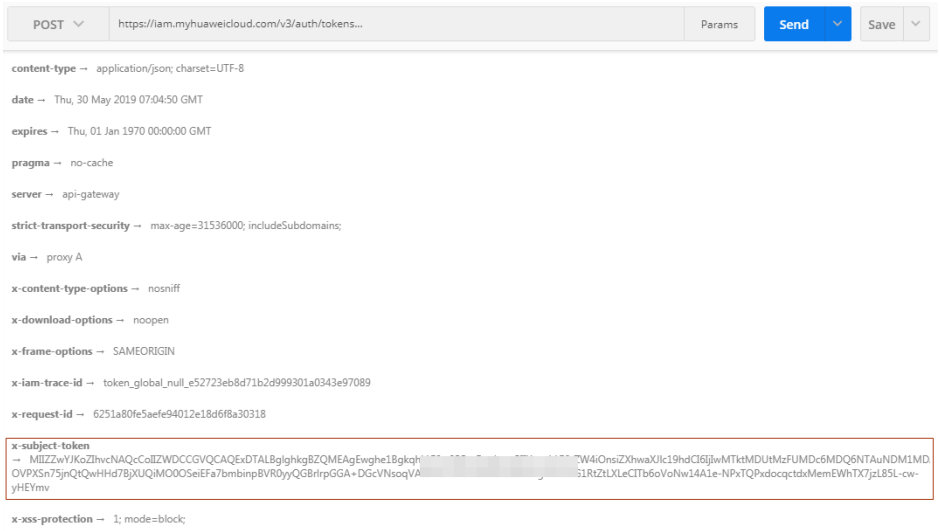
```
{
  "auth": {
  "identity": {
     "methods": ["password"],
     "password": {
        "user": {
           "name": "name",          --Username
           "password": "password",       --Password
           "domain": {
              "name": "domainname"    --Name of the account to which the user belongs
           }
        }
     }
  },
  "scope": {
        "domain": {
           "name": "domainname"    --Name of the account to which the user belongs
     }
     }
  }
}
```

Information in the red box in the following figure indicates the obtained user token.



2. Create a cache preheating task.

   a. Select the POST request method and enter the request URI.

   ```
   POST  https://cdn.myhuaweicloud.com/v1.0/cdn/content/preheating-tasks
   ```

   b. Add **X-Auth-Token** to the request header.

   c. Specify the following parameters in the request body:

   ```
   {
     "preheating_task": {
        "urls": [
           "https://www.bxxx/1.txt",
           "https://www.bxxx/2.txt"
        ]
     }
   }
   ```

   d. Example response:

   ```
   {
    "preheating_task": "7620240"
   }
   ```

   e. If the request fails, an error code and error information are returned. For details, see **Error Codes**.

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3. Create a cache refreshing task.

   a. Select the POST request method and enter the request URI.

   ```
   POST  https://cdn.myhuaweicloud.com/v1.0/cdn/content/refresh-tasks
   ```

   b. Add **X-Auth-Token** to the request header.

   c. Specify the following parameters in the request body:

   ```
   {
     "refresh_task": {
        "type": "file",
        "urls": [
           "https://www.bxxx/1.txt",
           "https://www.bxxx/2.txt"
        ]
     }
   }
   ```

   d. Example response:

   ```
   {
    "refresh_task": "7620242"
   }
   ```

   e. If the request fails, an error code and error information are returned. For details, see **Error Codes**.

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7 Permissions Policies and Supported Actions

7.1 Introduction

This chapter describes fine-grained permissions management for your CDN. If your HUAWEI ID does not need individual IAM users, then you may skip over this chapter.

By default, new IAM users do not have any permissions assigned. You need to add a user to one or more groups, and assign permissions policies to these groups. The user then inherits permissions from the groups it is a member of. This process is called authorization. After authorization, the user can perform specified operations on CDN based on the permissions.

You can grant users permissions using **roles** and **policies**. Roles are a type of service-based, coarse-grained authorization mechanism that defines permissions related to user responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

NOTE

If you want to allow or deny the access to an API, fine-grained authorization is a good choice.

An account has all of the permissions required to call all APIs, but IAM users must have the required permissions specifically assigned. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully. For example, if an IAM user queries the list of CDN accelerated domain names using an API, the user must have been granted permissions that allow the **cdn:configuration:queryDomains** action.

Supported Actions

CDN provides system-defined policies that can be directly used in IAM. You can also create custom policies and use them to supplement system-defined policies,

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implementing more refined access control. Operations supported by policies are specific to APIs. The following are common concepts related to policies:

- Permissions: Statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called in a custom policy.
- Actions: Added to a custom policy to control permissions for specific operations.
- IAM or enterprise projects: Type of projects for which an action will take effect. Policies that contain actions supporting both IAM and enterprise projects can be assigned to user groups and take effect in both IAM and Enterprise Management. Policies that only contain actions supporting IAM projects can be assigned to user groups and only take effect for IAM. Such policies will not take effect if they are assigned to user groups in Enterprise Management. For details about the differences between IAM and enterprise projects, see **Differences Between IAM Projects and Enterprise Projects**.

  NOTE

  The check mark (√) indicates that an action takes effect. The cross mark (x) indicates that an action does not take effect.

CDN supports the following actions that can be defined in custom policies:

- [Example] **Refreshing and Preheating**, including the authorization items corresponding to all the refreshing and preheating AIs of CDN, such as querying the refreshing and preheating history, enabling the refreshing function, and enabling the preheating function.
- [Example] **Domain Name Operations**, including the authorization items corresponding to the CDN domain name operation APIs, such as querying domain names, creating a domain name, disabling domain names, enabling domain names, and deleting domain names.
- [Example] **CDN Billing**, including the authorization items corresponding to CDN billing APIs, such as querying and setting the billing option.

7.2 API Permissions

Domain Name Operations

Permission	Action	API	IAM Project	Enterprise Project
Querying domain names	cdn:configuration:queryDomains	GET /v1.0/cdn/domains	√	√
Creating a domain name	cdn:configuration:createDomains	POST /v1.0/cdn/domains	√	√

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Permission	Action	API	IAM Project	Enterprise Project
Disabling domain names	cdn:configuration:disableDomains	PUT /v1.0/cdn/domains/{domainId}/disable	√	√
Deleting domain names	cdn:configuration:deleteDomains	DELETE /v1.0/cdn/domains/{domainId}	√	√
Enabling domain names	cdn:configuration:enableDomains	PUT /v1.0/cdn/domains/{domainId}/enable	√	√

Domain Name Configuration

Permission	Action	API	IAM Project	Enterprise Project
Querying origin server information	cdn:configuration:queryOriginServerInfo	GET /v1.0/cdn/bucketinfo	√	√
Querying origin pull address	cdn:configuration:queryOriginConfInfo	GET /v1.0/cdn/domains/{domainId}/originhost	√	√
Querying HTTPS configurations	cdn:configuration:queryHttpsConf	GET /v1.0/cdn/domains/{domain_id}/https-info	√	√
Querying cache rules	cdn:configuration:queryCacheRule	GET /v1.0/cdn/domains/{domainId}/cache	√	√
Querying referer filtering rules	cdn:configuration:queryReferConf	GET /v1.0/cdn/domains/{domainId}/referer	√	√
Querying IP blacklists	cdn:configuration:queryIpAcl	GET /v1.0/cdn/domains/{domain_id}/ip-acl	√	√

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Permission	Action	API	IAM Project	Enterprise Project
Querying response header information	cdn:configuration:queryResponseHeaderList	GET /v1.0/cdn/domains/{domainId}/response-header	√	√
Modifying origin server information	cdn:configuration:modifyOriginServerInfo	PUT /v1.0/cdn/domains/{domainId}/origin	√	√
Modifying origin pull addresses	cdn:configuration:modifyOriginConfInfo	PUT /v1.0/cdn/domains/{domainId}/originhost	√	√
Configuring HTTPS	cdn:configuration:modifyHttpsConf	PUT /v1.0/cdn/domains/{domain_id}/https-info	√	√
Configuring cache rules	cdn:configuration:modifyCacheRule	PUT /v1.0/cdn/domains/{domainId}/cache	√	√
Configuring a referer list	cdn:configuration:modifyReferConf	PUT /v1.0/cdn/domains/{domainId}/referer	√	√
Setting IP blacklists	cdn:configuration:modifyIpAcl	PUT /v1.0/cdn/domains/{domain_id}/ip-acl	√	√
Setting response headers	cdn:configuration:createResHeader	PUT /v1.0/cdn/domains/{domainId}/response-header	√	√
Modifying origin request headers	cdn:configuration:modifyOriginConfInfo	PUT /v2/cdn/configuration/domains/{domain_name}/configs	√	√
Viewing origin request headers	cdn:configuration:queryOriginConfInfo	GET /v2/cdn/configuration/domains/{domain_name}/configs	√	√

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Refreshing and Preheating

Permission	Action	API	IAM Project	Enterprise Project
Querying refreshing the preheating histories	cdn:configuration:queryCacheHistoryTask	GET /v1.0/cdn/historytasks	√	√
Querying a cache refreshing or preheating task	cdn:configuration:queryCacheHistoryTask	GET /v1.0/cdn/historytasks/{history_tasks_id}/detail	√	√
Enabling the refreshing function	cdn:configuration:refreshCache	POST /v1.0/cdn/content/refresh-tasks	√	√
Enabling the preheating function	cdn:configuration:preheatCache	POST /v1.0/cdn/content/preheating-tasks	√	√

Analytics

Permission	Action	API	IAM Project	Enterprise Project
Querying consumption details	cdn:statistics:queryDomainSummaryDetail	GET /v1.0/cdn/statistics/domain-summary-detail	√	√
Querying consumption of each domain name	cdn:statistics:queryDomains	GET /v1.0/cdn/statistics/domain	√	√
Querying region consumption	cdn:statistics:queryRegionSummary	GET /v1.0/cdn/statistics/region-detail-summary	√	√

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Permission	Action	API	IAM Project	Enterprise Project
Querying carrier consumption	cdn:statistics:queryCarrierSummary	GET /v1.0/cdn/statistics/carrier-detail-summary	√	√
Querying details about top 100 URLs	cdn:statistics:queryTopUrl	GET /v1.0/cdn/statistics/top-url	√	√
Querying statistics about domain name consumption under a region or carrier	cdn:statistics:queryRegionCarrierData	GET /v1.0/cdn/statistics/region-carrier-domain	√	√

CDN Logs

Permission	Action	API	IAM Project	Enterprise Project
Querying logs	cdn:log:queryLogs	GET /v1.0/cdn/logs	√	√

CDN Billing

Permission	Action	API	IAM Project	Enterprise Project
Querying the billing option	cdn:configuration:queryChargeMode	GET /v1.0/cdn/charge/charge-modes	√	×
Configuring the billing option	cdn:configuration:modifyChargeMode	PUT /v1.0/cdn/charge/charge-modes	√	×

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Quotas

Permission	Action	API	IAM Project	Enterprise Project
Querying quotas	cdn:configuration:queryDomains	GET /v1.0/cdn/quota	√	×

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8 Appendix

8.1 Status Codes

Return Value	Description
200 OK	The request is normal.
301 Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.
302 Found	The requested resource was temporarily moved.
304 Not Modified	The requested resource has not been modified. In such a case, there is no need to retransmit the resource since the client has a previously-downloaded copy.
400 Bad Request	The server failed to process the request.
401 Unauthorized	You need to enter the username and password to access the requested page.
403 Forbidden	You are forbidden to access the requested page.
404 Not Found	The server could not find the requested page.
405 Method Not Allowed	The method specified in the request is not allowed.
406 Not Acceptable	The response generated by the server could not be accepted by the client.
407 Proxy Authentication Required	You must use the proxy server for authentication so that the request can be processed.

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Return Value	Description
408 Request Timeout	The request timed out.
409 Conflict	The request could not be processed due to a conflict.
416 Requested range not satisfiable	The requested range is invalid.
429 Too Many Requests	The client has sent more requests than the rate limit allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, the client should repeat requests after the time specified in the **Retry-After** header of the response expires.
500 Internal Server Error	The request is not completed because of a service error.
501 Not Implemented	The request is not completed because the server does not support the requested function.
502 Bad Gateway	The request is not completed because the request is invalid.
503 Service Unavailable	The request is not completed because the service is unavailable.
504 Gateway Timeout	A gateway timeout error occurs.

8.2 Error Codes

If an error code starting with APIGW is returned after you call an API, rectify the fault by referring to the instructions provided in **API Gateway Error Codes**.

Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0005	The upper limit is exceeded.	The number of accelerated domain names has reached the maximum allowed limit.	Ensure that the number of accelerated domain names does not exceed the maximum allowed limit or submit a service ticket to increase the limit.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0015	Service area not supported.	Service area not supported.	/
200	CDN.0016	This service type is not supported.	Service type is not support.	Enter a correct service type.
200	CDN.0101	The acceleration domain name already exists.	The accelerated domain name has been added.	Submit a service ticket.
200	CDN.0102	The domain name has not been filed or the filing has expired.	The accelerated domain name failed the audit.	Obtain a license from the Ministry of Industry and Information Technology for the accelerated domain name.
200	CDN.0103	Information about the origin server format is incorrect.	The auditing of the origin server failed.	Obtain a license from the Ministry of Industry and Information Technology for the origin server domain name.
200	CDN.0104	The number of acceleration domain names has reached the upper limit.	The number of accelerated domain names has reached the maximum allowed limit.	Submit a service ticket to increase the domain name quota.
200	CDN.0105	The acceleration domain name does not exist.	The accelerated domain name does not exist.	Check whether the domain name is correct. If the domain name is correct, submit a service ticket.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0106	This operation is not supported by the domain name in the current state.	This operation is not allowed in the current state of the domain name.	Check whether the domain name is banned or locked or whether the operation is supported in the current state of the domain name. For example, only enabled domain names can be disabled.
200	CDN.0107	The retrieval host failed the audit.	The auditing of the retrieval host failed.	Obtain a license from the Ministry of Industry and Information Technology for the retrieval host domain name.
200	CDN.0108	The URL domain name is not the acceleration domain name of the current tenant.	The domain name does not belong to this account.	Check whether the domain name is correct. If the domain name is correct, submit a service ticket.
200	CDN.0109	The domain name of the origin server must be different from the acceleration domain name.	The origin domain name cannot be the same as its accelerated domain name.	Change the accelerated domain name.
200	CDN.0110	The number of URLs to be preheated or refreshed exceeds the upper limit.	The number of URLs has exceeded the maximum allowed limit.	Submit a service ticket to increase the URL quota for cache refreshing and preheating.
200	CDN.0114	The billing mode has not been configured.	CDN is not enabled.	Go to the CDN console, select a billing option, and enable CDN.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0115	Acceleration domain names are prohibited.	The domain name is banned.	Submit a service ticket for unbanning the domain name.
200	CDN.0116	Acceleration domain names are locked.	The domain name is locked.	Submit a service ticket for unlocking the domain name.
200	CDN.0117	If the retrieval host is set to an origin server domain name, the origin server cannot be an IP address.	The origin server address cannot be an IP address when the origin server domain name is used as the retrieval host.	Change the access mode of the origin server.
200	CDN.0120	The domain name has been added by another user.	The domain name has been added by another user.	Submit a service ticket.
200	CDN.0121	The IP address must not be an internal network IP address.	The IP address cannot be an intranet IP address.	Change the IP address type.
200	CDN.0126	Only domain names that are disabled or fail to be configured, audited, or synchronized can be deleted.	The domain name cannot be deleted.	Domain names can be deleted only when they are disabled, fail the audit, or fail to be configured or synchronized. Check the domain name status.
200	CDN.0127	The domain name format is incorrect.	Invalid domain name.	Enter a domain name in the correct format.
200	CDN.0128	The service type is incorrect.	Incorrect service type.	Enter a correct service type based on the API Reference.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0129	The origin type is incorrect.	Incorrect origin server type.	Enter a correct origin server type based on the API Reference.
200	CDN.0130	The number of origin server IP addresses exceeds the upper limit.	The number of origin server IP addresses has exceeded the maximum allowed limit.	Ensure that the number of entered IP addresses does not exceed the maximum allowed limit.
200	CDN.0131	The number of origin server domain names exceeds the upper limit.	The number of origin server domain names has exceeded the maximum allowed limit.	Ensure that the number of entered origin server domain names does not exceed the maximum allowed limit.
200	CDN.0132	The retrieval host type is incorrect.	Incorrect type of the retrieval host.	Enter a correct retrieval host type based on the API Reference.
200	CDN.0133	The retrieval host is incorrect.	Incorrect retrieval host.	Enter a correct retrieval host based on the API Reference.
200	CDN.0134	The weight of cache rules must be an integer from 1 to 100.	The weight value of the cache rule must be an integer ranging from 1 to 100.	Enter an integer ranging from 1 to 100.
200	CDN.0135	The cache rule type is incorrect.	Incorrect type of the cache rule.	Enter a cache rule type supported by CDN based on the API Reference.
200	CDN.0136	The time range must fall within 0 to 365 days.	The allowed time span ranges from 0 to 365 days.	Specify a time span ranging from 0 to 365 days.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0137	The cache rule format is invalid.	Invalid cache rule.	Enter a cache rule in the format supported by CDN based on the API Reference.
200	CDN.0138	The anti-leeching URL type is incorrect.	Incorrect referer type.	Enter a referer type supported by CDN based on the API Reference.
200	CDN.0139	The number of anti-leeching domain names must range from 1 to 100.	The number of domain names in the referer list must range from 1 to 100.	Enter 1 to 100 domain names.
200	CDN.0141	The domain name is not filed with the Ministry of Industry and Information Technology of the People's Republic of China.	The domain name is not licensed.	Obtain a license from the Ministry of Industry and Information Technology for the accelerated domain name.
200	CDN.0142	Https not support yet.	The HTTPS protocol is not supported.	/
200	CDN.0143	The ownership of the domain name is not verified.	The ownership of the wildcard domain name is not verified.	Ensure that the wildcard domain name does not conflict with an existing domain name or submit a service ticket.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0145	Only domain names in the Enabled state and that are not banned or locked in the background support this operation.	You can perform this operation only on an enabled domain name.	Ensure that the domain name is enabled.
200	CDN.0147	The origin is an OBS domain name. Retrieval host cannot be modified.	The retrieval host cannot be modified when an OBS bucket is used as the origin server.	/
200	CDN.0148	The origin is an OBS domain name. Standby origin cannot be configured.	A standby origin server cannot be added when an OBS bucket is used as the origin server.	/
200	CDN.0149	Not allowed because the domain name is in a shared cache group.	Primary domain name of a shared cache group cannot be deleted.	/
200	CDN.0156	****, source is illegal.	The origin server is invalid.	Replace the valid origin server.
200	CDN.0163	The domain has special config. Please contact CDN operators to change.	The domain has special config.	Please contact CDN operators to change.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0201	Domain name error.	Incorrect domain name.	The accelerated domain name is invalid or does not exist. Refresh the page and check whether the domain name is in the domain name list. If the fault persists, submit a service ticket.
200	CDN.0202	Statistical time error.	Incorrect statistics start time and end time.	Check whether the statistics start time and end time are correct based on the API Reference. For example, check whether the query time span exceeds the allowed limit, the start time is later than the end time, or the time value is a negative number.
200	CDN.0203	Sampling interval error.	Incorrect sampling interval.	Check whether the sampling interval is within the maximum allowed time span.
200	CDN.0401	Certificates are deleted mistakenly.	Failed to delete the certificate.	Submit a service ticket.
200	CDN.0402	The certificate or private key cannot be left blank.	The certificate or key cannot be empty.	Enter a certificate or key.
200	CDN.0403	The certificate must be in the PEM format.	The certificate format must be PEM.	Ensure that the certificate format is PEM.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0404	The private key format must be in the PEM format.	The key format must be PEM.	Ensure that the key format is PEM.
200	CDN.0405	The certificate and private key do not match.	The certificate does not match the private key.	Ensure that the certificate matches the private key.
200	CDN.0406	The certificate and domain name do not match.	The certificate does not match the domain name.	Ensure that the certificate matches the domain name.
200	CDN.0407	Certificate error.	Incorrect certificate.	Submit a service ticket.
200	CDN.0408	The certificate has expired.	The certificate has expired.	Update the certificate in the certificate chain.
200	CDN.0409	The certificate will expire in less than 24 hours.	The remaining validity of the certificate is less than 24 hours.	Update the certificate in the certificate chain.
200	CDN.0410	The certificate chain cannot be supplemented.	The certificate chain is incomplete.	Supplement the certificate chain.
200	CDN.0411	The certificate status is incorrect.	Incorrect certificate status.	Submit a service ticket.
200	CDN.0412	The length of the certificate or private key content exceeds the upper limit.	The length of the certificate body or private key has exceeded the maximum allowed limit.	Check the supported length of the certificate body or private key by referring to the CDN documentation.
200	CDN.0413	The certificate not yet valid.	The certificate has not taken effect.	Submit a service ticket.

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Status Code	Error Codes	Error Message	Description	Solution
200	CDN.0414	Invalid private key format of the certificate. Only RSA format is supported.	The private key of the certificate is incorrect.	Submit a service ticket.
400	CDN.0001	Parameter error.	The parameter format is incorrect or a parameter is missing.	Correct the incorrect parameter or specify the missing parameter by referring to the API Reference.
400	CDN.00010177	Failed to add a domain name whose service area covers Chinese mainland because your account has not completed real-name authentication.	Your account has not completed real-name authentication.	Complete real-name authentication and add the domain name again.
400	CDN.00010178	Domain name restricted. Submit a service ticket.	Domain name restricted.	Submit a service ticket.
400	CDN.00010179	Wildcard domain names cannot be added as origin servers.	Incorrect origin server.	Wildcard domain names cannot be used as origin servers. Change the origin server domain name and try again.

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Status Code	Error Codes	Error Message	Description	Solution
400	CDN.00010180	The origin server cannot be a subdomain of a wildcard domain.	Incorrect origin server.	You have added a wildcard domain name as the acceleration domain name. Its subdomain names cannot be used as origin servers. Change the origin server domain name and try again.
400	CDN.00010183	Not allowed because the domain name has shared settings.	Primary domain name of a shared configuration group cannot be deleted.	/
400	CDN.00010185	Domain owner verify failed.	Verify domain name ownership failed.	/
401	CDN.0002	Unauthenticated user.	You have not passed the authentication.	Specify the authentication information or enter correct authentication information.
403	CDN.00010181	No enterprise projects available.	Incorrect enterprise project.	Check whether you have enabled the enterprise project function for this account.
403	CDN.00010182	Resource does not belong to this enterprise project.	Domain name is not in this enterprise project.	Check the enterprise project to which the domain name belongs and try again.

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Status Code	Error Codes	Error Message	Description	Solution
403	CDN.00010198	Insufficient permission to access scm.	The IAM user does not have the permission to access SCM.	The IAM user does not have the permission to access SCM. Grant the iam:agencies:listAgencies permission to it.
403	CDN.0004	Insufficient permission.	Insufficient permissions.	If you do not have the required permissions, obtain the required permissions. If you have the required permissions, submit a service ticket.
403	CDN.0019	Operation not allowed.	Operation not allowed.	/
403	CDN.0020	The user is not authorized to the enterprise project.	You do not have the permissions required to perform operations on the enterprise project.	Obtain the required permissions for the enterprise project.
403	CDN.0021	The user does not have operation permissions because the fine-grained authentication is not passed.	You do not have the permissions required to perform this operation.	Obtain the required permissions.
404	CDN.0003	The object does not exist.	The object does not exist.	Ensure that the object to be operated exists.
500	CDN.0000	System error.	Internal system error.	Submit a service ticket.

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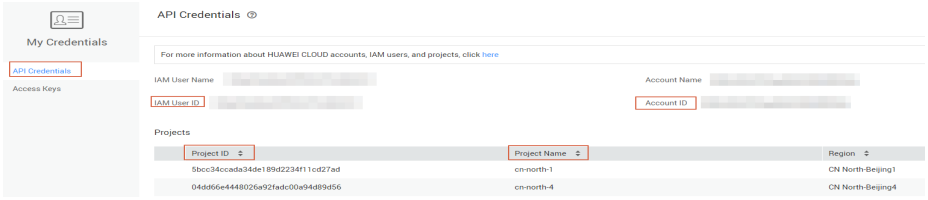
8.3 Obtaining a Project ID

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover the mouse over the username and select **My Credentials** from the drop-down list.
3. On the **API Credentials** page, view the project ID in the project list.

Figure 8-1 Viewing project IDs



If there are multiple projects in one region, expand **Region** and view subproject IDs in the **Project ID** column.

Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see **Querying Project Information**.

The API for obtaining a project ID is **GET https://{Endpoint}/v3/projects/**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from **Regions and Endpoints**. For details about API authentication, see **Authentication**.

The following is an example response. The value of **id** is the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "project_name",
            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

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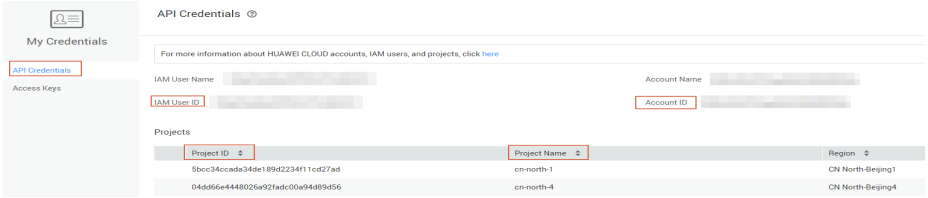
8.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Hover the mouse over the username and select **My Credentials** from the drop-down list.

   On the **API Credentials** page, view **Account ID**.

Figure 8-2 Obtaining an account ID



8.5 Areas

Code	Name
anhui	Anhui
beijing	Beijing
chongqing	Chongqing
fujian	Fujian
gansu	Gansu
guangdong	Guangdong
guangxi	Guangxi
guizhou	Guizhou
hainan	Hainan
hebei	Hebei
heilongjiang	Heilongjiang
henan	Henan
hubei	Hubei
hunan	Hunan
jiangsu	Jiangsu
jiangxi	Jiangxi

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Code	Name
jilin	Jilin
liaoning	Niaoning
neimenggu	Inner Mongolia
ningxia	Ningxia
qinghai	Qinghai
shaanxi	Shaanxi
shandong	Shandong
shanghai	Shanghai
shanxi	Shanxi
sichuan	Sichuan
tianjin	Tianjin
xinjiang	Xinjiang
xizang	Xizang
yunnan	Yunnan
zhejiang	Zhejiang
gangaotai	Hong Kong (China), Macao (China), and Taiwan (China)
qita	Others

8.6 Carriers

Code	Name
dianxin	China Telecom
yidong	China Mobile
liantong	China Unicom
tietong	China Tietong
jiaoyuwang	China Education and Research Network (CERNET)
pengboshi	Dr. Peng
qita	Others

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8.7 Country and Region Description

Table 8-1 Country and region codes

Country/Region	Code
China	cn
United Arab Emirates	ae
Australia	au
Brazil	br
Canada	ca
Switzerland	ch
Germany	de
Spain	es
France	fr
United Kingdom	gb
Indonesia	id
Israel	il
India	in
Italy	it
Japan	jp
South Korea	kr
Mexico	mx
Malaysia	my
Netherlands	nl
Norway	no
Philippines	ph
Qatar	qa
Saudi Arabia	sa
Sweden	se
Singapore	sg
Thailand	th

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Country/Region	Code
United States	us
Vietnam	vn
South Africa	za
New Zealand	nz
Türkiye	tr
Ireland	ie
Pakistan	pk
Argentina	ar
Egypt	eg
Others	qita

8.8 Geographical Location Codes

Code	Location	Encoding	Location	Encoding	Location	Encoding	Location
AD	Andorra	EC	Ecuador	LB	Lebanon	RO	Romania
AE	United Arab Emirates	EE	Estonia	LC	Saint Lucia	RS	Serbia
AF	Afghanistan	EG	Egypt	LK	Sri Lanka	RU	Russia
AG	Antigua and Barbuda	ER	Eritrea	LR	Liberia	RW	Rwanda
AL	Albania	ES	Spain	LS	Lesotho	SA	Saudi Arabia
AM	Armenia	ET	Ethiopia	LT	Lithuania	SB	Solomon Islands
AO	Angola	FI	Finland	LU	Luxembourg	SC	Seychelles
AR	Argentina	FJ	Fiji	LV	Latvia	SD	Sudan
AT	Austria	FM	Micronesia	LY	Libya	SE	Sweden

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Code	Location	Encoding	Location	Encoding	Location	Encoding	Location
AU	Australia	FO	Faroe Islands	MA	Morocco	SG	Singapore
AZ	Azerbaijan	FR	France	MC	Monaco	SI	Slovenia
BA	Bosnia and Herzegovina	GA	Gabon	MD	Republic of Moldova	SK	Slovakia
BB	Barbados	GB	United Kingdom of Great Britain and Northern Ireland	ME	Montenegro	SL	Sierra Leone
BD	Bangladesh	GD	Grenada	MG	Madagascar	SM	San Marino
BE	Belgium	GE	Georgia	MH	Marshall Islands	SN	Senegal
BF	Burkina Faso	GH	Ghana	MK	North Macedonia	SO	Somalia
BG	Bulgaria	GM	Gambia	ML	Mali	SR	Suriname
BH	Bahrain	GN	Guinea	MM	Myanmar	SS	South Sudan
BI	Burundi	GQ	Equatorial Guinea	MN	Mongolia	ST	Sao Tome and Principe
BJ	Benin	GR	Greece	MO	Macao, China	SV	El Salvador
BN	Brunei Darussalam	GT	Guatemala	MR	Mauritania	SY	Syrian Arab Republic
BO	Bolivia	GW	Guinea-Bissau	MT	Malta	SZ	Eswatini
BR	Brazil	GY	Guyana	MU	Mauritius	TD	Chad
BS	Bahamas	HK	Hong Kong, China	MV	Maldives	TG	Togo
BT	Bhutan	HN	Honduras	MW	Malawi	TH	Thailand
BW	Botswana	HR	Croatia	MX	Mexico	TJ	Tajikistan
BY	Belarus	HT	Haiti	MY	Malaysia	TK	Tokelau

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Code	Location	Encoding	Location	Encoding	Location	Encoding	Location
BZ	Belize	HU	Hungary	MZ	Mozambique	TL	Timor-Leste
CA	Canada	ID	Indonesia	NA	Namibia	TM	Turkmenistan
CD	Democratic Republic of the Congo	IE	Ireland	NE	Niger	TN	Tunisia
CF	Central African Republic	IL	Israel	NG	Nigeria	TO	Tonga
CG	Congo	IN	India	NI	Nicaragua	TR	Türkiye
CH	Switzerland	IQ	Iraq	NL	Netherlands	TT	Trinidad and Tobago
CI	Côte d'Ivoire	IR	Iran	NO	Norway	TV	Tuvalu
CK	Cook Islands	IS	Iceland	NP	Nepal	TW	Taiwan, China
CL	Chile	IT	Italy	NR	Nauru	TZ	United Republic of Tanzania
CM	Cameroon	JM	Jamaica	NU	Niue	UA	Ukraine
CN_IN	Chinese mainland	JO	Jordan	NZ	New Zealand	UG	Uganda
CO	Colombia	JP	Japan	OM	Oman	US	United States of America
CR	Costa Rica	KE	Kenya	PA	Panama	UY	Uruguay
CU	Cuba	KG	Kyrgyzstan	PE	Peru	UZ	Uzbekistan
CV	Cape Verde	KH	Cambodia	PG	Papua New Guinea	VC	Saint Vincent and the Grenadines
CY	Cyprus	KI	Kiribati	PH	Philippines	VE	Venezuela
CZ	Czech	KM	Comoros	PK	Pakistan	VN	Vietnam
DE	Germany	KN	Saint Kitts and Nevis	PL	Poland	VU	Vanuatu

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Code	Location	Encoding	Location	Encoding	Location	Encoding	Location
DJ	Djibouti	KP	Democratic People's Republic of Korea	PS	Palestine	WS	Samoa
DK	Denmark	KR	Republic of Korea	PT	Portugal	YE	Yemen
DM	Dominica	KW	Kuwait	PW	Palau	ZA	South Africa
DO	Dominican Republic	KZ	Kazakhstan	PY	Paraguay	ZM	Zambia
DZ	Algeria	LA	Lao People's Democratic Republic	QA	Qatar	ZW	Zimbabwe

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