

Alibaba Cloud

CDN

Acceleration in Hong Kong
(China), Macao (China), Taiwan
(China), and regions outside
China

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Document conventions

Style	Description	Example
 Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
 Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
<code>Courier font</code>	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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1. Overview

Alibaba Cloud Content Delivery Network (CDN) retrieves resources from origin servers and caches the resources on CDN nodes deployed across the world. When a client sends a request, the system does not need to send the request to the origin server. Instead, the system automatically retrieves the requested resource cached on the CDN node that is closest to the client and returns the resource to the client. This topic describes how content delivery is accelerated in accelerated regions outside mainland China.

Benefits

Alibaba Cloud CDN provides more than 2,800 nodes deployed across the world. More than 500 nodes are deployed across 70 countries and regions outside mainland China, including China (Hong Kong), China (Macao), and China (Taiwan). Alibaba Cloud CDN supports a total bandwidth capacity of 130 Tbit/s and 10 GE network interface controllers (NICs). Each CDN node provides 40 TB to 1.5 PB of data storage, and a bandwidth capacity of 40 Gbit/s to 200 Gbit/s. Alibaba Cloud CDN offers the following benefits:

Stability and high speed

- Stable performance and high efficiency: a cache hit ratio of higher than 95%, a smooth video streaming rate of higher than 95%, and a response time of milliseconds.
- Network-wide monitoring and intelligent service systems: 24/7 network-wide and intelligent monitoring and scheduling based on service quality.

Cost-effectiveness

- You can elastically scale resources and pay for the resources based on the actual usage. Content delivery can be accelerated across Internet service providers (ISPs) and regions.
- Alibaba Cloud CDN supports the pay-by-data-transfer and pay-by-bandwidth metering methods. Both metering methods charge fees on a pay-as-you-go basis. You can select a metering method based on your business requirements.
- Alibaba Cloud CDN automatically responds to traffic spikes of accelerated domain names and makes adjustments to reduce workloads on origin servers.

Ease of use

- Alibaba Cloud CDN provides an easy-to-use console. In the CDN console, you can customize configurations of domain names. For example, you can add, delete, modify, and query domain names. In addition, Alibaba Cloud CDN also allows you to customize hot link protection rules, cache policies, and HTTP response headers.
- Alibaba Cloud CDN provides a wide array of API operations that enable you to use the features of Alibaba Cloud CDN. For example, you can call API operations to activate Alibaba Cloud CDN, refresh content, query monitoring data, and download and deliver log data.

High efficiency and intelligence

- Alibaba Cloud CDN provides standard configurations that can be quickly and automatically applied.
- The Alibaba Cloud CDN console can quickly respond to user requests to ensure a smooth user experience. Compared with other CDN services, Alibaba Cloud CDN does not require manual intervention, which minimizes the response time.

Scenarios

Alibaba Cloud CDN can be applied in the following scenarios to accelerate content delivery in regions outside mainland China, including China (Hong Kong), China (Macao), and China (Taiwan):

- **Small image files:** Your websites or applications offer downloads of images and small files in formats such as HTML, CSS, and JavaScript.
- **Downloads of large files:** Your websites or applications offer downloads of files larger than 20 MB, such as game applications, client applications, or mobile apps.
- **On-demand audio and video streaming:** Your websites or applications offer on-demand video streaming or short video streaming. Mainstream media formats such as MP4 and FLV are supported.
- **Dynamic Route for CDN (DCDN)** is an independent Alibaba Cloud service and can accelerate the delivery of dynamic content. You can also use DCDN to accelerate the delivery of static and dynamic content separately.
- **Secure acceleration:** If your website is vulnerable to attacks and requires delivery acceleration, you can use HTTPS to reinforce the security of your workloads.

Metering methods

Alibaba Cloud CDN supports the following metering methods: pay-by-data-transfer and pay-by-bandwidth. Value-added services are billed based on the actual usage, such as the number of HTTPS requests to static resources. Related topics:

- [Pay by traffic](#)
- [Pay-by-bandwidth](#)
- [Billing of value-added services](#)

Both the subscription and pay-as-you-go billing methods charge fees based on the actual resource usage. Alibaba Cloud CDN provides cost-effective subscription resource plans. For more information, see [CDN/DCDN resource plans](#).


Both the subscription and pay-as-you-go billing methods charge fees based on the actual resource usage. Alibaba Cloud CDN provides cost-effective subscription resource plans. For more information, see [CDN/DCDN resource plans](#).

For more information about the pricing of Alibaba Cloud CDN, see [Pricing of CDN](#).

Acceleration methods

After you create an Alibaba Cloud account and pass real-name verification, you can use Alibaba Cloud CDN in the CDN console or through API operations to accelerate content delivery in regions outside mainland China, including China (Hong Kong), China (Macao), and China (Taiwan). For more information, see:

- [Configure CDN acceleration in accelerated regions outside mainland China in the CDN console](#)
- [Make API calls to accelerate content delivery outside mainland China](#)

 **Notice** Whether you need to file for an ICP number for the domain name to be accelerated depends on the accelerated region. If you select **Global** or **Mainland China Only**, you must file for an ICP number for the domain name. We recommend that you apply for an ICP number through [Alibaba Cloud ICP Filing System](#).

Related services

This section describes the related services of Alibaba Cloud CDN to help you understand the position and use of Alibaba Cloud CDN among other Alibaba Cloud services.

Related service	Benefit
Object Storage Service (OSS)	You can integrate Alibaba Cloud CDN with OSS to accelerate access to websites. This way, you can retrieve content directly from CDN nodes to reduce the costs of Internet data transfer.
ApsaraVideo Live	You can integrate Alibaba Cloud CDN with ApsaraVideo Live to achieve media feed storage, video segmentation and transcoding, access authentication, and content delivery acceleration.
Alibaba Cloud DNS	You can use Alibaba Cloud DNS that is highly available and scalable to ensure smooth access to resources.
Elastic Compute Service (ECS)	You can use Alibaba Cloud CDN with ECS to improve website availability, protect origin information, and minimize bandwidth usage costs.
Server Load Balancer (SLB)	You can specify the IP address of an SLB instance as the origin address to balance the bandwidth required for retrieving resources from the origin server.


2.CDN nodes in Hong Kong (China), Macao (China), Taiwan (China), and regions outside China

This topic describes the distribution of Alibaba Cloud CDN nodes in Hong Kong (China), Macao (China), Taiwan (China), and regions outside China.

Node performance

Alibaba Cloud CDN hosts more than 2800 nodes worldwide, covering more than 70 countries and regions.

Alibaba Cloud CDN supports an aggregate bandwidth of 130 Tbit/s. Each CDN node supports 40 TB to 1.5 PB of storage, and 40 Gbit/s to 200 Gbit/s of bandwidth. With these global high-performance nodes, Alibaba Cloud CDN can significantly speed up content and service delivery.

 **Note** Alibaba Cloud will update the deployment of CDN nodes that are put in use. We recommend that you focus your attention on the information of the official website.

Nodes distribution

Alibaba Cloud CDN nodes in Hong Kong (China), Macao (China), Taiwan (China), and regions outside China are distributed as follows:

- Asia Pacific: Japan (Tokyo), Japan (Osaka), South Korea (Seoul), Hong Kong (China), Taiwan (China), Macao (China).
- India: Kolkata, New Delhi, Mumbai, Hyderabad, Bangalore, and Chennai.
- Indonesia: Jakarta and Surabaya.
- Southeast Asia: Singapore, Thailand (Bangkok), Philippines (Manila), Vietnam (Ho Chi Minh), Vietnam (Hanoi), and Malaysia (Kuala Lumpur).
- Oceania: Australia (Sydney), Australia (Melbourne), and New Zealand (Hamilton).
- Middle East: Dubai, Kuwait, and Oman in the United Arab Emirates.
- Europe: Russia (Moscow and St. Petersburg), Ukraine, United Kingdom, France, Netherlands, Spain, Italy, Sweden, and Germany.
- North America: Canada (Vancouver), United States (Los Angeles), United States (California), United States (Miami), United States (New York), United States (Seattle), United States (San Jose), United States (Denver), United States (Dallas), United States (Chicago), and United States (Santa Clara).
- South America: Sao Paulo, Brazil.
- Africa: Johannesburg, South Africa.

Video centers on the cloud

Nodes for video centers on the cloud are distributed as follows:

- Live centers: Singapore, India (Mumbai), (Germany) Frankfurt, Japan (Tokyo), and Jakarta (Indonesia).
- VOD centers: Singapore, India (Mumbai), (Germany) Frankfurt, Japan (Tokyo), and Jakarta (Indonesia).
- Transcoding centers: Singapore, India (Mumbai), (Germany) Frankfurt, Japan (Tokyo), Jakarta

(Indonesia), Hong Kong (China), United Kingdom (London), United States (Silicon Valley).

3. Configure CDN acceleration

3.1. Configure Alibaba Cloud CDN in accelerated regions outside mainland China in the CDN console

This topic describes how to configure Alibaba Cloud Content Delivery Network (CDN) in accelerated regions outside mainland China in the Alibaba Cloud CDN console. To accelerate content delivery in Hong Kong, Macao, Taiwan, and other regions outside mainland China, follow the procedure described in this topic to activate and configure Alibaba Cloud CDN.

Prerequisites

An [Alibaba Cloud account](#) is created and [real-name verification](#) is completed.

Context

Alibaba Cloud CDN applies to a wide array of scenarios, including but not limited to:

- Small image files: Your websites or applications offer downloads of images and small files in formats such as HTML, CSS, and JavaScript.
- Large files: Your websites or applications offer downloads of files larger than 20 MB, such as game applications, client applications, and mobile apps.
- On-demand audio and video streaming: Your websites or applications offer on-demand video streaming or short video streaming. Mainstream media formats such as MP4 and FLV are supported.


If your workloads are deployed in one of the preceding scenarios, and the origin server is deployed in a region outside mainland China, perform the following steps to configure Alibaba Cloud CDN:


Step 1: Activate Alibaba Cloud CDN

1. Log on to the [Alibaba Cloud CDN console](#) to activate Alibaba Cloud CDN.
2. On the **Alibaba Cloud CDN** page, select a **Billing Method**. For more information about the pricing of Alibaba Cloud CDN, see [Billing rules](#).
3. Select **I agree with Alibaba Cloud CDN Agreement of Service** and click **Enable Now**.

Step 2: Add the domain name to be accelerated

1. In the left-side navigation pane, click **Domain Names**.
2. On the **Domain Names** page, click **Add Domain Name**.
3. Set the following parameters: **Domain Name to Accelerate**, **Resource Groups**, **Business Type**, **Port**, and **Region**.

 **Note** To accelerate content delivery in Hong Kong, Macao, Taiwan, and other regions outside mainland China, select **Global** or **Global (Excluding Mainland China)**. If you select **Global** as the accelerated region, the accelerated domain name must obtain an Internet Content Provider (ICP) number. We recommend that you apply for ICP numbers through [Alibaba Cloud ICP Filing System](#).

Parameter	Value	Description
Domain Name to Accelerate	-	<p>Enter the domain name that you want to add to Alibaba Cloud CDN, for example, ch.aliyun.com. Note that:</p> <ul style="list-style-type: none"> You can use a subdomain name or a wildcard domain name as the accelerated domain name, for example, <code>cdn^{test}.example.com</code>. You cannot add a duplicate domain name to Alibaba Cloud CDN. If a DomainAlreadyExist error occurs, submit a ticket. You can add at most 50 domain names to Alibaba Cloud CDN under each Alibaba Cloud account. To add more domain names, submit a ticket. Content that is delivered from your domain name must comply with the limits of Alibaba Cloud CDN and the relevant regulations. For more information, see Limits.
Business Type	Image and Small File	If you want to accelerate the delivery of small-sized static content on your website, we recommend that you select Image and Small File from the Business Type drop-down list. Examples of small-sized static content include small-sized files, images, and style sheets.
	Delivery of large files	If you want to accelerate the delivery of static files larger than 20 MB, we recommend that you select Large File Download from the Business Type drop-down list. Examples of large-sized static files include game installation packages, app update packages, mobile read-only memory (ROM) upgrade packages, and app packages.
	VOD	If you want to accelerate the delivery of on-demand video or audio content, we recommend that you select VOD from the Business Type drop-down list.
Origin Info	IP	You can enter the public IP addresses of one or more servers. IP addresses of Alibaba Cloud Elastic Compute Service (ECS) instances do not need to be reviewed.
	Site Domain	<p>You can enter the domain names of one or more origin servers.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> Note The domain name of the origin server that you specified cannot be the same as the accelerated domain name. Otherwise, a DNS resolution loop occurs and requests cannot be redirected to the origin server correctly. For example, if the domain name of your origin server is <code>img.yourdomain.com</code>, you can set the accelerated domain name to <code>cdn.yourdomain.com</code>.</p> </div>

Parameter	Value	Description
	OSS Domain	You can enter the public endpoint of an Alibaba Cloud Object Storage Service (OSS) bucket, for example, xxx.oss-cn-hangzhou.aliyuncs.com. To view the public endpoint of an OSS bucket, go to the OSS console. You can also select the endpoint of an OSS bucket under the current Alibaba Cloud account from the Domain Name drop-down list.
	Function Compute Domain	If you select this value, you must set the Region and Domain Name parameters.
Port	-	Select a port based on your business requirements. <ul style="list-style-type: none">Port 80 Data is transmitted over HTTP.Port 443 Data is transmitted over HTTPS.
Region	Global (Excluding Mainland China)	If you select Global (Excluding Mainland China) , you do not need to obtain an ICP number for the domain name.
	Global	If you select Global , you must obtain an ICP number for the domain name. For more information, see Apply for an Internet Content Provider (ICP) number for an accelerated domain name .
	Mainland China Only	If you select Mainland China Only , you must obtain an ICP number for the domain name. For more information, see Apply for an Internet Content Provider (ICP) number for an accelerated domain name .

4. Click **Next**.

Step 3: Configure a CNAME record

After you add a domain name to Alibaba Cloud CDN, Alibaba Cloud CDN verifies the ownership of the domain name. After the domain name passes the ownership verification, Alibaba Cloud CDN assigns a Canonical Name (CNAME) to the domain name. To enable CDN acceleration for the domain name, you must add a CNAME record to map the domain name to the CNAME. This way, requests sent to the domain name can be redirected to CDN nodes. The following example demonstrates how to add a CNAME record for the domain name. Alibaba Cloud DNS (previously known as HiChina) is used in the example.

- Obtain the CNAME assigned to the domain name.
 - In the left-side navigation pane, click **Domain Names**.
 - On the **Domain Names** page, copy the CNAME of the accelerated domain name.
- Add a CNAME record.
 - Log on to the [Alibaba Cloud DNS console](#).
 - On the **Manage DNS** page, click the Domains tab, select the domain name that you want to manage, and then click **Configure** in the Actions column.

- iii. Click **Add Record** and add a CNAME record.
- iv. Click **OK**.

The CNAME record is added. CDN acceleration is automatically enabled for the domain name immediately after the CNAME record takes effect. After you add a CNAME record, it immediately takes effect. After you modify a CNAME record, the modifications take effect within 72 hours.

3. Check whether the CNAME record has taken effect.
 - i. Open the Command Prompt in Windows.
 - ii. Enter **ping** or **dig** and the accelerated domain name into the Command Prompt. If the output includes `*.*kunlun*.com`, both the CNAME record and CDN acceleration have taken effect.

3.2. Make API calls to accelerate content delivery outside mainland China

This topic describes how to call the `AddCdnDomain` operation to add a domain name to Alibaba Cloud Content Delivery Network (CDN) to accelerate content delivery in accelerated regions outside mainland China.

Prerequisites

Before you call this operation, complete the following steps:

- [Create an Alibaba Cloud account](#)
- [Complete real-name verification](#)
- [Activate Alibaba Cloud Content CDN](#)
- [Use Alibaba Cloud SDK for Java](#)

Context


Alibaba Cloud CDN applies to a wide array of scenarios, including but not limited to:

- **Small image files:** Your websites or applications offer downloads of images and small files in formats such as HTML, CSS, and JavaScript.
- **Large files:** Your websites or applications offer downloads of files larger than 20 MB, such as game applications, client applications, and mobile apps.
- **On-demand audio and video streaming:** Your websites or applications offer on-demand video streaming or short video streaming. Mainstream media formats such as MP4 and FLV are supported.

If your workloads are deployed in one of the preceding scenarios, and the origin server is deployed in a region outside mainland China, perform the following steps to configure Alibaba Cloud CDN:

Procedure


1. Add Maven dependencies.

 **Note** The SDK used in this example may not be the latest version. For more information about the latest version, visit the [Alibaba Cloud Open Platform](#).

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-cdn</artifactId>
  <version>3.0.10</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.4.4</version>
</dependency>
```

2. Call the `AddCdnDomain` operation.

The endpoint of an Object Storage Service (OSS) bucket is added to Alibaba Cloud CDN in this example. The accelerated region is set to global. The OSS bucket delivers images and small files. For more information about the API operation, see [AddCdnDomain](#).

 **Note** If your CDN service is deployed outside mainland China, select global or global (excluding mainland China) as the accelerated region. When you select global as the accelerated region, the accelerated domain name must obtain an Internet Content Provider (ICP) number. We recommend that you apply for an ICP number through [Alibaba Cloud ICP Filing System](#).

```
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.profile.DefaultProfile;
import java.util.*;
import com.aliyuncs.cdn.model.v20180510.*;

public class AddCdnDomain {
    public static void main(String[] args) {
        // Specify your AccessKey ID and AccessKey secret.
        DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou", "<accessKeyId>", "<accessSecret>");
    };
    IAcsClient client = new DefaultAcsClient(profile);

    AddCdnDomainRequest request = new AddCdnDomainRequest();
    request.setRegionId("cn-hangzhou");
    request.setCdnType("web");
    request.setDomainName("*****.aliyun.com");
    request.setSources("[{\"content\":\"test.oss-cn-hangzhou.aliyuncs.com\",\"type\":\"oss\",\"priority\":\"20\",\"port\":\"80\",\"weight\":\"15\"}];");
    //Select the accelerated region. If the accelerated region is outside mainland China, enter global or overseas.
    request.setScope("global");
    try {
        AddCdnDomainResponse response = client.getAcsResponse(request);
        System.out.println(new Gson().toJson(response));
    } catch (ServerException e) {
        e.printStackTrace();
    } catch (ClientException e) {
        System.out.println("ErrCode:" + e.getErrCode());
        System.out.println("ErrMsg:" + e.getErrMsg());
        System.out.println("RequestId:" + e.getRequestId());
    }
}
}
```

Result

If the API call is successful, the system returns a request ID to you.

```
{  
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"  
}
```

What's next

You can log on to the Alibaba Cloud CDN console to view the accelerated domain name and configure a CNAME record for the domain name. For more information about what to do next, see [Configure a CNAME record](#).

4. Billing rules

4.1. Overview

Alibaba Cloud Content Delivery Network (CDN) supports the pay-by-data-transfer and pay-by-bandwidth billing methods in accelerated regions outside mainland China. This topic describes these two billing methods.

Purchase guide

When you activate Alibaba Cloud CDN, you can select pay-by-data-transfer or pay-by-bandwidth. For more information about pricing, see [CDN pricing](#).

Billing methods

Billing method	Description	Scenario
Pay by traffic	You are charged for the basic services of Alibaba Cloud CDN based on the amount of daily outbound data of CDN nodes.	Your traffic curve shows large fluctuations and bandwidth spikes. The daily bandwidth usage is lower than 30%.
Pay-by-bandwidth	You are charged for the basic services of Alibaba Cloud CDN based on the daily peak bandwidth values. A bandwidth value is collected every 5 minutes. 288 values are collected every day. The greatest bandwidth value is used as the daily peak bandwidth.	Your traffic curve is relatively flat, and the daily bandwidth usage exceeds 30%.

Note

- The bandwidth usage is calculated based on the following formula: Bandwidth usage = Data usage (GB)/[Peak bandwidth (Mbit/s) × 10.54]. If the bandwidth is 1 Mbit/s and the daily bandwidth usage is 100%, the data usage is 10.54 GB.
- You are charged for only the outbound data from CDN nodes.
- Alibaba Cloud CDN retains logs within the last three months. If you have questions about the logs or bills, submit an application before the log data expires to check the billing statements with Alibaba Cloud. Expired log data is released and cannot be restored. Billing statements of expired log data is not provided.

Usage notes

The data transfer that is actually billed is higher than the data transfer recorded in logs. The amount of data recorded in CDN logs equals the amount of data captured at the application layer. However, an extra amount of data is consumed to transmit the additional bytes inserted to TCP/IP packet headers and to retransmit TCP packets. Therefore, the actual amount of data is higher than the amount of data captured at the application layer. For more information, see [Why is the actual billed network traffic different from the network traffic reported by the logging feature?](#).

4.2. Pay by traffic

Alibaba Cloud Content Delivery Network (CDN) supports the pay by traffic billing method. This billing method calculates fees based on the amount of outbound traffic from CDN nodes. Use Alibaba Cloud CDN based on your actual workload requirements.

Alibaba Cloud CDN provides resource plans

Alibaba Cloud CDN provides resource plans. For more information, see [CDN Resource Plan](#).



Subscription


Alibaba Cloud CDN provides cost-effective resource plans to pay for outbound traffic. For more information about resource plans, see [CDN pricing](#)

Pay-as-you-go

The pay-as-you-go billing method has the following rules:

- Billing item: traffic
- Billing method: pay-as-you-go.
- Billing rule: You are billed based on the amount of generated network traffic in each region (inside and outside mainland China). Billing is based on different pricing tiers. The amount that exceeds the current pricing tier is billed based on the next pricing tier. The calculation cycle is one calendar month.
- Billing cycle: Billed on an hourly basis and the fees are deducted in real time.
- Conversion Formula: 1 GB = 1,024 MB.
- Release schedule of bills: A bill is issued at the end of the current billing cycle. The bill is typically issued within three hours after the end of the current billing cycle, which is subject to the actual system billing time. The amount due is then automatically deducted from your account balance.

For more information about pay by traffic, see [CDN pricing](#).

 **Note** The upper bandwidth limit of pay by traffic is set to 10 Gbit/s by default. If the actual peak bandwidth of your workloads is higher than 10 Gbit/s, choose the pay by bandwidth billing method, or submit a ticket.

Considerations

The amount of data that is actually charged is higher than the amount of data recorded in logs. The amount of data recorded in CDN logs equals the amount of data captured at the application layer. However, an extra amount of data is consumed to transmit the additional bytes inserted to TCP/IP packet headers and to retransmit TCP packets. Therefore, the actual amount of data is higher than the amount of data captured at the application layer. For more information, see [Differences between billed data transfer and data transfer recorded in logs](#).

4.3. Pay-by-bandwidth

Alibaba Cloud Content Delivery Network (CDN) supports the pay-by-bandwidth billing method. This topic describes the pay-by-bandwidth billing method.


Pay-as-you-go

The pay-as-you-go billing method has the following rules:

- Billing item: peak bandwidth values
- Billing method: pay-as-you-go.
- Billing rule: you are billed based on the peak bandwidth values in each region. Billing is based on different tiers.
- Billing cycle: billed on an hourly basis and the fees are deducted in real time.
- Release schedule of bills: A bill is issued at the end of the current billing cycle (calendar days).

The bill of the current day is issued after 00:00:00 (UTC+8) on the following day. The time when bills are issued is typically three hours after the billing cycle ends. The system determines the time to issue bills. For example, the bill of June 17 is issued around 03:00:00 (UTC+8) on June 18. After a bill is issued, the fees are automatically deducted from your account balance.

For more information about pay-by-bandwidth, see [CDN pricing](#).

 **Note** The pay-by-peak bandwidth billing method indicates that you are billed based on the daily maximum bandwidth values (Mbit/s) reached by CDN nodes that are deployed inside and outside mainland China separately.

4.4. Billing of value-added services

Alibaba Cloud Content Delivery Network (CDN) provides a wide array of value-added services. This topic describes the billing details of value-added services.

Static HTTPS requests

After you enable HTTPS, static HTTPS requests incur fees. For more information about the pricing, see [CDN pricing](#).

DCDN

DCDN is now an independent Alibaba Cloud service. If you set the business type to **DCDN** in the Alibaba Cloud CDN console when you added an accelerated domain name, you can go to the [DCDN console](#) to view and manage the domain name. Domain names that are accelerated by **DCDN** and retained in the CDN console are billed based on the pricing of the DCDN service. If you have purchased CDN or DCDN resource plans, CDN and DCDN can share resource plans of outbound traffic or static HTTPS requests.

4.5. Overdue payments

This topic describes the reasons that may cause Alibaba Cloud Content Delivery Network (CDN) service suspension and how to configure low balance alerts.

Service suspension Overdue payments Low balance alerts CDN service

Service suspension

Service suspension

When your CDN payment is overdue, the system will send notifications to you through SMS messages or emails.

- If you settle the payment within 24 hours after the payment becomes overdue, your CDN service will not be suspended.
- If you do not settle the payment within 24 hours after the payment becomes overdue, your CDN service will be suspended. The cache resources that you are using will be released. However, your CDN configuration information will be retained for 12 months.

Low balance alerts

How a low balance alert is generated depends on the billing method.

- **Pay by traffic:** The system determines whether you have a sufficient balance in your account to pay for the next three billing cycles based on the average payable amount during the last seven hours. If you do not have a sufficient balance, the system will send an SMS message or email to you as a reminder.
- **Pay by bandwidth:** The system determines whether you have a sufficient balance in your account to pay for the next billing cycle (day) based on the payable amount during the most recent billing cycle (day). If you do not have a sufficient balance, the system will send an SMS message or email to you as a reminder.

4.6. FAQ

This topic answers the frequently asked questions about the billing of Alibaba Cloud Content Delivery Network (CDN).

- [Why is the actual billed network traffic different from the network traffic reported by the logging feature?](#)
- [Why are fees still incurred after I have stopped the CDN service?](#)
- [If my origin server is located outside Mainland China, how am I billed for using Alibaba Cloud CDN nodes in Mainland China?](#)
- [How is data transfer billed when CDN nodes retrieve resources from OSS buckets?](#)
- [How is data transfer billed when Alibaba Cloud CDN is used along with other Alibaba Cloud services?](#)
- [How can I view CDN resource plans that I have purchased?](#)
- [Why do I pay extra fees for network traffic even after I have purchased an Alibaba Cloud CDN data transfer plan?](#)

5. Query the bandwidth or data usage

The Alibaba Cloud Content Delivery Network (CDN) console allows you to query bandwidth and data usage information. You can use this information to monitor the billing statements under your account. You can query bandwidth and data usage information on the Resource Monitoring and Usage pages in the Alibaba Cloud CDN console. You can filter data usage information by area, based on which Alibaba Cloud CDN calculates fees. You can filter bandwidth information by region.

Data usage

You can use the following filter conditions to query bandwidth and data usage information.

- Accelerated domain names under the current account.
- Tags of accelerated domain names.
- Accelerated regions. For more information about accelerated regions outside mainland China, see [CDN nodes in Hong Kong \(China\), Macao \(China\), Taiwan \(China\), and regions outside China](#).
- Time range. You can select today, yesterday, last 7 days, last 30 days, or specify a custom time range.

Alibaba Cloud CDN allows you to query bandwidth and data usage information by accelerated region. The procedure is as follows.

1. Log on to the [Alibaba Cloud CDN console](#).
2. In the left-side navigation pane, choose **Monitoring & Usage Analytics > Usage**.
3. On the **Usage** page, you can query data usage by different filter conditions, such as bandwidth, accelerated domain, time range, and accelerated region.

To query the data usage of accelerated regions outside mainland China, you can select **Asia Pacific 1**, **Asia Pacific 2**, **Asia Pacific 3**, **North America**, **South America**, **Europe**, or **Middle East/Africa**.

4. Click **Search** to query data.

Resource monitoring data

You can use the following filter conditions to query bandwidth and data usage information.

- Accelerated domain names under the current account.
- Tags of accelerated domain names.
- Accelerated regions. For more information about accelerated regions outside mainland China, see [CDN nodes in Hong Kong \(China\), Macao \(China\), Taiwan \(China\), and regions outside China](#).
- Time range. You can select today, yesterday, last 7 days, last 30 days, or specify a custom time range.
- Time granularity. You can select five minutes or one hour.
- ISPs.

You can query bandwidth and data usage information by country (China excluded). The procedure is as follows.

1. Log on to the [Alibaba Cloud CDN console](#).
2. In the left-side navigation pane, choose **Monitoring & Usage Analytics > Resource**

Monitoring.

3. On the **Traffic/Bandwidth** page, you can query data by different filter conditions, such as accelerated domain, time range, accelerated region, time granularity, and ISP.

To query bandwidth or data usage information about accelerated regions outside mainland China, select a location from the **Range > All Regions** drop-down list.

4. Click **Search** to query data.

6.FAQ

This topic answers the frequently asked questions about CDN acceleration in regions outside mainland China.

What can I do if node resources in a region are insufficient?

If you are an Alibaba Cloud user, [submit a ticket](#) to request a quota increase.

If you are a customer business manager, [submit a ticket](#) or contact after-sales service to request a quota increase.

What is content preview?

The content of the origin site accelerated by Alibaba Cloud Content Delivery Network (CDN) must be in compliance with the local laws and regulations. If any violation is discovered, Alibaba Cloud immediately blocks the domain or suspends services.

If the CDN nodes used to accelerate your domain are not deployed in mainland China, you do not need to apply for an ICP filing.

Alibaba Cloud CDN does not accelerate content that involves pornography or gambling.