

# Alibaba Cloud

## CDN Quick Start






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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
 <b>Warning</b>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings</b> > <b>Network</b> > <b>Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<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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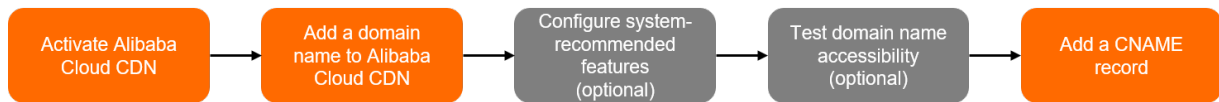
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# 1. Overview

This topic describes how to get started with Alibaba Cloud CDN.

## Procedure

If this is your first time using Alibaba Cloud CDN, you can follow the steps below to quickly start the CDN acceleration service.



1. [Activate Alibaba Cloud CDN](#)
2. [Add a domain name to Alibaba Cloud CDN](#)
3. [Configure system-recommended features \(optional\)](#)
4. [Test whether a domain name is accessible \(optional\)](#)
5. [Add a CNAME record for a domain name](#)

## 2. Activate Alibaba Cloud CDN

You must activate Alibaba Cloud CDN before you can use it. This topic describes how to activate Alibaba Cloud CDN.

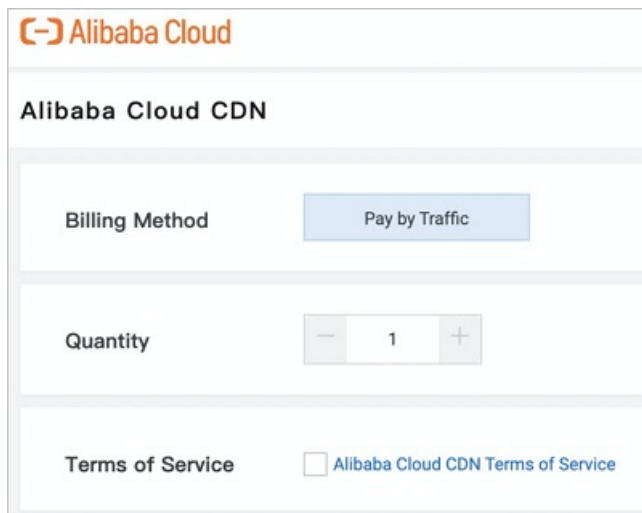
### Prerequisites

An Alibaba Cloud account is created and real-name verification is completed. If you do not have an Alibaba Cloud account, [create one](#) and complete [real-name verification](#).

### Procedure

1. Log on to the [Alibaba Cloud CDN console](#).
2. Click **Buy Now**.
3. Select a **Metering Method** and select **Alibaba Cloud CDN Terms of Service**. The default metering method is pay-by-data-transfer.

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



The screenshot shows the Alibaba Cloud CDN activation page. At the top, there is the Alibaba Cloud logo. Below it, the title 'Alibaba Cloud CDN' is displayed. The main content area is divided into three sections: 'Billing Method' with a button labeled 'Pay by Traffic', 'Quantity' with a numeric input field set to '1', and 'Terms of Service' with a checkbox labeled 'Alibaba Cloud CDN Terms of Service'.

4. Click **Activate Now**.

After Alibaba Cloud CDN is activated, you can click **Alibaba Cloud CDN** to go to the console.

### What to do next

[Add a domain name to Alibaba Cloud CDN](#)

### Related API operations

[OpenCdnService](#)

## 3. Add a domain name to Alibaba Cloud CDN

If you want to use Alibaba Cloud CDN to accelerate content delivery for a specified website, you must specify the website as the origin server. Then, add the domain name that you want to accelerate to Alibaba Cloud CDN. After you add a domain name to be accelerated to Alibaba Cloud CDN, the system pushes the configuration of the domain name to all edge nodes without affecting the services of the domain name.

To add a domain name to Alibaba Cloud CDN, perform the following steps:

- [Step 1: Complete basic settings and specify business information](#)
- [Step 2: Set up origin servers](#)
- [Step 3: Complete ownership verification](#)

For more information about the health check policies on origin servers, see [Configure a health check policy for an origin server](#).

### Prerequisites

1. An origin server with stable performance is deployed.

**Note** If the accelerated region is **Mainland China Only** or **Global**, you must apply for an Internet Content Provider (ICP) number for the domain name. If the domain name does not have an ICP number, you can use [Alibaba Cloud ICP Filing System](#) to apply for one.

2. Alibaba Cloud CDN is activated. For more information about how to activate Alibaba Cloud CDN, see [Activate Alibaba Cloud CDN](#).

### Step 1: Complete basic settings and specify business information

1. Log on to the [Alibaba Cloud CDN console](#).
2. In the left-side navigation pane, click **Domain Names**.
3. Click **Add Domain Name** and set the following parameters.

← Add Domain Name

1 Specify Domain Name Information 2 Recommended Features 3 Add a CNAME Record

**Basic Information**

\* Domain Name to Accelerate:

An accelerated domain name refers to a domain name that is added to Alibaba Cloud CDN, which accelerates content delivery from the origin server. In this case, the accelerated domain name is the one that your users access. Alibaba Cloud CDN supports wildcard domain names, for example, \*.test.com. [Learn More](#)

**Business Information**



\* Business Type:

\* Region: ☒ Mainland China Only ☐ Global ☐ Global (Excluding Mainland China)



If the accelerated region includes mainland China, the accelerated domain name must have an ICP filing. Add a domain name to CDN eight hours after you apply for an ICP filing because the ICP filing information is not updated immediately in the MIT system. [What is ICP filing?](#)

Pricing policies vary by region. [Pricing](#)

Resource Groups:

Parameter	Description
Domain Name to Accelerate	<ul style="list-style-type: none"><li>• <b>Domain name Type:</b> The domain name to be accelerated can be a specific domain name such as <code>example.aliyundoc.co</code> or a wildcard domain name such as <code>*.aliyundoc.com</code>.</li><li>• <b>Domain name format:</b> The domain name must be in lowercase letters. Chinese characters are not supported.</li></ul> <div> <b>Notice</b><p>If the domain name contains Chinese characters such as 阿里云.网址, you must apply for an ICP number for the domain name in Chinese characters, and use the tool Punycode to convert the domain name to English letters, such as xn--fiq****.xn--eq****. Then, you can specify it as the domain name to be accelerated.</p></div> <ul style="list-style-type: none"><li>• <b>Requirements for wildcard domain names:</b> For more information, see <a href="#">Does Alibaba Cloud CDN support wildcard domain names?</a></li></ul> <div> <b>Notice</b><ul style="list-style-type: none"><li>◦ The specified wildcard domain name and the domain names that match the wildcard domain name must belong to the same Alibaba Cloud account. To request technical support from Alibaba Cloud, <a href="#">submit a ticket</a>.</li><li>◦ If a wildcard domain name is not added to Alibaba Cloud CDN, you can add domain names that match the wildcard domain name to Alibaba Cloud CDN by using different Alibaba Cloud accounts.</li></ul></div> <ul style="list-style-type: none"><li>• <b>You cannot add duplicate domain names to Alibaba Cloud CDN.</b><p>If the system prompts that the domain name has been added to other Alibaba Cloud services such as ApsaraVideo VOD or Dynamic Route for CDN (DCDN), you can <a href="#">submit a ticket</a>.</p></li><li>• <b>Each Alibaba Cloud account can add at most 50 domain names to Alibaba Cloud CDN.</b><p>However, if the sum of the average daily peak bandwidth values of your domain names exceeds 50 Mbit/s, you can <a href="#">submit a ticket</a> to add more domain names to Alibaba Cloud CDN. Make sure that the increase of domain names does not cause business risks.</p></li><li>• <b>The content delivered from the domain name must be legal and comply with the Terms of Service for Alibaba Cloud CDN.</b> For more information, see <a href="#">Limits</a>.</li></ul>



Parameter	Description
Business Type	<div>  <b>Notice</b> The business type cannot be modified after it is set. Proceed with caution. </div> <ul style="list-style-type: none"> <li>• <b>Image and small file distribution</b>: accelerates the delivery of small-sized static content on websites, such as e-commerce content and game images.</li> <li>• <b>Large file distribution</b>: accelerates the delivery of static files that are larger than 20 MB.</li> <li>• <b>On-demand audio and video streaming</b>: accelerates the delivery of audio or video content.</li> <li>• <b>DCDN</b>: accelerates the delivery of both static and dynamic content. DCDN can accelerate the delivery of large amounts of dynamic content.</li> </ul> <p>If you set Business Type to <b>DCDN</b>, you must follow the instructions to go to the DCDN console to add and configure the domain name. For more information, see <a href="#">Add a domain name</a>.</p>
Region	<ul style="list-style-type: none"> <li>• <b>Mainland China Only</b>: All requests are scheduled to edge nodes that are deployed in mainland China. Requests from outside mainland China are scheduled to edge nodes managed by China Telecom (East China Division).</li> <li>• <b>Global</b>: All requests are scheduled to the nearest edge nodes.</li> <li>• <b>Global (Excluding Mainland China)</b>: All requests are scheduled to edge nodes that are deployed in Hong Kong (China), Macao (China), Taiwan (China), or other countries or regions outside mainland China. However, requests from mainland China are scheduled to edge nodes that are deployed in Japan, Singapore, or Hong Kong (China).</li> </ul> <div>  <b>Notice</b> <ul style="list-style-type: none"> <li>• If you select <b>Mainland China Only</b> or <b>Global</b>, you must apply for an ICP number for the accelerated domain name. We recommend that you use <a href="#">Alibaba Cloud ICP Filing System</a> to apply for ICP numbers. It may take some time for Ministry of Industry and Information Technology (MIIT) to update data in the database. After you submit domain name information to MIIT, we recommend that you wait 8 hours before you configure the domain name in Alibaba Cloud CDN.</li> <li>• The pricing strategies vary based on the accelerated region. Choose an accelerated region based on your business requirements. For more information about the pricing of Alibaba Cloud CDN, see <a href="#">CDN pricing</a>.</li> </ul> </div>

## Step 2: Set up origin servers

1. After you complete the basic settings and specify business information, click **Add Origin Server**.
2. In the **Add Origin Server** dialog box, set the following parameters.

Add Origin Server

\* Origin Info

☐ OSS Domain

☒ IP

☐ Site Domain

☐ Function Compute Domain

IP

Enter a single IPv4 address

\* Priority

☒ Primary

☐ Secondary

The primary origin server has a higher than a secondary origin server. If the primary origin server fails, requests are redirected to a secondary origin server.

\* Weight

10

Valid values are 1 to 100. Alibaba Cloud CDN redirects requests to the origin servers based on their weights.

\* Port



80


Port 1 to port 65535 support HTTP. Port 443 support 443. If you want a custom port to support HTTPS, [submit a ticket](#).

OK

Cancel

Parameter	Description
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Parameter	Description
Origin Info	<p>Select the type of the origin server and enter the address of the origin server.</p> <div>  <b>Note</b> You can add at most 20 origin servers.         </div> <ul style="list-style-type: none"> <li> <b>OSS Domain</b> <ul style="list-style-type: none"> <li>If you use an OSS bucket as the origin server, you can enter the public endpoint of the OSS bucket, for example, <code>***.oss-cn-hangzhou.aliyundoc.com</code>. Internal endpoints of OSS buckets are not supported.</li> <li>To view the public endpoint of an OSS bucket, log on to the <a href="#">OSS console</a>. You can also select the endpoint of an OSS bucket that belongs to the current Alibaba Cloud account from the Domain Name drop-down list.</li> </ul> </li> <li> <b>IP</b> <p>Enter the public IP addresses of one or more servers. Public IP addresses of Alibaba Cloud Elastic Compute Service (ECS) instances do not need to be reviewed.</p> </li> <li> <b>Site Domain</b> <p>Enter the domain names of one or more origin servers.</p> <div>  <b>Note</b> <ul style="list-style-type: none"> <li>The domain name of the origin server cannot be the same as the domain name to be accelerated. Otherwise, a DNS resolution loop occurs and requests cannot be redirected to the origin server.</li> <li>The domain name must be in lowercase letters.</li> <li>If the domain name contains Chinese characters such as 阿里云.网址, you must apply for an ICP number for the domain name in Chinese characters, and use the tool Punycode to convert the domain name to English letters, such as xn--fiq****.xn--eq****. Then, you can specify it as the domain name to be accelerated.</li> </ul> </div> </li> <li> <b>Function Compute Domain</b> <p>Enter a Function Compute domain name that belongs to the current Alibaba Cloud account. You must set the <b>Region</b> and <b>Domain Name</b> parameters for the Function Compute domain name. For more information, see <a href="#">Overview</a>.</p> </li> </ul>
Priority	<p>You can set priorities to specify primary and secondary origin servers. The primary origin server has a higher priority than the secondary origin servers. Alibaba Cloud CDN preferably redirects requests to the primary origin server.</p> <p>For example, you have specified two origin servers: Server A and Server B. Server A is the primary origin server and Server B is the secondary origin server. In this case, Alibaba Cloud CDN preferentially redirects requests to Server A. If Origin Server A fails, Alibaba Cloud CDN redirects user requests to Origin Server B. After Origin Server A recovers, Alibaba Cloud CDN fails back to Origin Server A.</p>

Parameter	Description
Weight	<p>If origin servers have the same priority, Alibaba Cloud CDN redirects requests to the origin servers based on their weights. This balances loads among the origin servers. You can specify a weight based on your business requirements.</p> <ul style="list-style-type: none"><li>◦ The valid values of origin server weights are 1 to 100. A greater value indicates a higher weight. An origin server with a higher weight receives more user requests.</li><li>◦ Default value: 10.</li></ul> <p>For example, both Origin Server A and Origin Server B are specified as primary origin servers. The weight of Origin Server A is 80 and the weight of Origin Server B is 20. In this case, Alibaba Cloud CDN redirects user requests to both origin servers at a ratio of 8:2.</p>
Port	<p>The port on the origin server that processes requests. The default port is port 80. You can specify a port based on the settings of your origin server. Valid values are 1 to 65535.</p> <ul style="list-style-type: none"><li>◦ Default value: 80.</li><li>◦ If you specify port 443, requests are redirected to the origin server over HTTPS. If you specify port 80 or a custom port, requests are redirected to the origin server over HTTP.</li></ul> <div><p> <b>Note</b></p><ul style="list-style-type: none"><li>◦ If you want Alibaba Cloud CDN to redirect HTTPS requests to origin servers over custom ports, <a href="#">submit a ticket</a>.</li><li>◦ If <b>Origin Protocol Policy</b> is enabled, custom ports do not take effect. For more information about how to disable the origin protocol policy, see <a href="#">Configure the origin protocol policy</a>.</li><li>◦ If the origin server is an OSS bucket, OSS determines whether you can specify a custom port.</li></ul></div>


3. After the configuration is complete, click **OK**.
4. (Optional) You can repeat the preceding steps to add more origin servers.

### Step 3: Complete ownership verification

1. After you set up origin servers, click **Next**.
2. (Optional) If this is the first time the domain name is added to Alibaba Cloud CDN, Alibaba Cloud CDN must verify the ownership of the domain name.

 **Note** For more information, see [Verify the ownership of a domain name](#). If the domain name has already passed the verification, skip this step.

3. Wait for manual verification.

 **Note** If the domain name does not need to be manually verified, proceed to the next step. In the next step, you can set the parameters based on your business requirements.

It takes one to two business days to complete the verification. If you require prioritized verification, [submit a ticket](#).

After the domain name passes the verification, the status of the domain name changes to **Enabled**. In this case, the domain name is added to Alibaba Cloud CDN.

## Configure a health check policy for an origin server

CDN edge nodes provide Layer 4 (TCP) health checks on origin servers. CDN edge nodes perform health checks on origin servers to check the availability of the origin servers in case back-to-origin routing fails.


If a user sends a Layer 4 connection request to the same IP address and port for two consecutive times, and the origin server is unavailable due to reasons such as connection failures or timeouts for both times, Alibaba Cloud CDN moves the IP address of the origin server from the back-to-origin routing address list to the dead table. Meanwhile, Alibaba Cloud CDN attempts to access origin servers in descending order of priority. If origin servers have the same priority, they are prioritized based on their weights. If the IP address of an origin server remains unavailable for two consecutive times, a scheduled task is started. The task sends Layer 4 TCP probes to the IP address every 5 seconds. The IP address is added to the available IP list only after a TCP connection to the IP address is established.

### Note

- Probes are sent to IP addresses. If the address of an origin server is a domain name, Alibaba Cloud CDN accesses the secondary origin server only if all the IP addresses that belong to the domain name are unavailable.
- Probes automatically skip origin servers that are in the dead table.

## What to do next

**Add a CNAME record for a domain name:** After a domain name is added to Alibaba Cloud CDN, Alibaba Cloud CDN assigns a CNAME to the domain name. You must add a CNAME record for the domain name before CDN acceleration can take effect.

 **Note** We recommend that you configure the following features before you [Add a CNAME record for a domain name](#) for the domain name:

- Configure system-recommended features (optional):** You can set cache expiration rules and bandwidth caps, increase cache hit ratios, reinforce protection, and improve content delivery performance.
- Test whether a domain name is accessible (optional):** You can perform this operation to ensure that DNS updates do not effect the services of your website.

## Related API operations

Feature	API
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Feature	API
Adds a domain name.	<ul style="list-style-type: none"><li>• <b>AddCdnDomain</b>: Adds a domain name to Alibaba Cloud CDN.</li><li>• <b>BatchAddCdnDomain</b>: Adds multiple domain names to Alibaba Cloud CDN at a time.</li></ul>
Verify the ownership of a domain name	<ul style="list-style-type: none"><li>• <b>VerifyDomainOwner</b>: Verifies the ownership of a domain name by adding a DNS record.</li><li>• <b>DescribeVerifyContent</b>: Verifies the ownership of a domain name by uploading a verification file.</li></ul>


## 4.Configure system-recommended features (optional)

After you add a domain name to Alibaba Cloud CDN, we recommend that you set a cache expiration time, set a bandwidth cap, and configure HTML optimization. These features increase the cache hit ratio, reinforce security, and improve content retrieval efficiency.

### Increase the cache hit ratio and accelerate content delivery

Slow content delivery is typically related to low cache hit ratios. We recommend that you set a cache expiration time and configure the parameter filtering feature to increase the cache hit ratio.

Scenario	Description	Configuration
The cache hit ratio is low and content retrieval is slow	<p>The (time-to-live) TTL value for cached content is smaller than required or no cache expiration rule is created, which causes requests to be frequently redirected to the origin server. Set a proper TTL value to increase the cache hit ratio and accelerate content retrieval.</p> <p>We recommend that you set a TTL value based on the following rules:</p> <ul style="list-style-type: none"> <li>Specify a TTL value of one month or longer for static files that are infrequently updated, such as images and application packages.</li> <li>Specify a TTL value based on your actual workloads for static files that are frequently updated, such as JavaScript and CSS files.</li> </ul>	Set a TTL value for cached resources
	<p>By default, client requests are redirected to the origin server with the complete URLs retained, including parameters that follow the question mark ( ? ). You can enable the parameter filtering feature to retain only specified URL parameters that follow the question mark ( ? ) to increase the cache hit ratio and reduce the number of requests redirected to the origin server.</p> <div>  <b>Note</b> You can specify the parameters that you want to retain in URLs.         </div>	Enable Alibaba Cloud CDN to retain only specified URL parameters and ignore other URL parameters

Scenario	Description	Configuration
	<p>By default, client requests are redirected to the origin server with the complete URLs retained, including parameters that follow the question mark ( ? ). You can enable the parameter filtering feature to delete specified URL parameters that follow the question mark ( ? ) to increase the cache hit ratio and reduce the number of requests redirected to the origin server.</p> <div> <b>Note</b> You can specify the parameters that you want to retain or retain.</div>	<a href="#">Delete URL parameters</a>

For more information about causes of low cache hit ratios, see [Causes of low cache hit ratios](#).

## Improve service security

To prevent bandwidth spikes caused by attacks, you can configure the monitoring and alerting features to monitor bandwidth values. Alternatively, you can set a bandwidth cap.

Scenario	Description	Configuration
Prevent high bandwidth values	You can set a bandwidth cap. If a bandwidth value during a statistical period exceeds the bandwidth cap, Alibaba Cloud CDN suspends acceleration and disables the accelerated domain name. All requests that are destined for the accelerated domain name are directed to the origin server.	<a href="#">Set a bandwidth cap</a>
	You can set alert rules in CloudMonitor to monitor bandwidth values. This allows you to detect and manage bandwidth anomalies at the earliest opportunity.	<a href="#">Set an alert rule</a>

## Improve service performance

You can configure HTML optimization, object chunking, and intelligent compression based on your business requirements to reduce file sizes, accelerate content delivery, and improve page readability.

Scenario	Description	Configuration
Improve service performance	Alibaba Cloud CDN automatically removes redundant content from web pages, such as comments and additional whitespace characters in HTML pages, CSS code, and JavaScript code. This reduces file sizes and accelerates content delivery.	<a href="#">Configure HTML optimization</a>
	Clients retrieve specified file chunks from the origin server. In scenarios such as large file distribution, the amount of back-to-origin traffic can be reduced and content retrieval efficiency can be improved.	<a href="#">Object chunking</a>



Scenario	Description	Configuration
	CDN nodes use Gzip to compress text files before they are returned to users. This reduces the size of the requested files, accelerates content delivery, and reduces bandwidth usage.	<a href="#">Configure intelligent compression</a>

## 5. Test whether a domain name is accessible (optional)

After you add a domain name to Alibaba Cloud CDN, we recommend that you test whether the domain name is accessible before you update the CNAME record of the domain name. This ensures that DNS updates do not affect the services of the domain name. This topic describes how to use an on-premises machine to test whether a domain name is accessible before it is mapped to the CNAME assigned by Alibaba Cloud CDN.

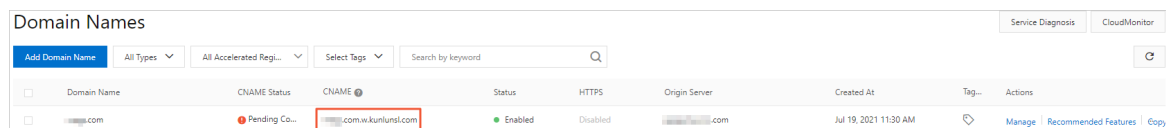
**Note** During the test, requests are sent to CDN edge nodes. You are charged for the basic services and value-added services of Alibaba Cloud CDN that you have used. The billing rules of Alibaba Cloud CDN apply in the test. For more information, see [Billable items](#).

### Prerequisites

- A domain name is added to Alibaba Cloud CDN. If you have not added a domain name to Alibaba Cloud CDN, add one to Alibaba Cloud CDN. For more information, see [Add a domain name to Alibaba Cloud CDN](#).
- You can access services of the origin server.

### Procedure

- Log on to the Alibaba Cloud CDN console, navigate to the [Domain Names](#) page, and then copy the CNAME of the domain name.



Domain Names										Service Diagnosis	CloudMonitor
	Domain Name	CNAME Status	CNAME	Status	HTTPS	Origin Server	Created At	Tag...	Actions		
<input type="checkbox"/>	example.com	Pending Co...	example.com.kunlunsl.com	Enabled	Disabled	example.com	Jul 19, 2021 11:30 AM		Manage Recommended Features Copy		

- Obtain the IP address of the CNAME.

**Note** The following IP address is an example returned by running the `ping` command and is for reference only. To obtain the actual IP address of your CNAME, run the `ping` command to ping your CNAME.

- Windows: To obtain the IP address of your CNAME, open the command-line interface and run the `ping` command to ping your CNAME.
- macOS: To obtain the IP address of your CNAME, open the command-line interface and run the `dig` command to dig your CNAME.

```

dig 10.10.10.10 n.w.kunluncan.com

; <<>> DiG 9.10.6 <<>> 10.10.10.10 n.w.kunluncan.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 60541
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4000
;; QUESTION SECTION:
; 10.10.10.10. n.w.kunluncan.com. IN      A

;; ANSWER SECTION:
10.10.10.10. n.w.kunluncan.com. 60 IN    A      203.0.113.1

;; Query time: 18 msec
;; SERVER: 10.10.10.10 (10.10.10.10)
;; WHEN: Mon Aug 14 20:20:20 2023
;; MSG SIZE rcvd: 74

```

3. Add the IP address and domain name to the hosts file of the on-premises machine.

You must add the IP address obtained from Step 2 and the accelerated domain name to the hosts file of the on-premises machine. Make sure that you add the IP address before the accelerated domain name.

In this example, the accelerated domain name is example.com, the CNAME is example.com.w.kunlunsl.com, and the IP address of the CNAME is 203.0.113.1.

- o The path of the hosts file in Windows is *C:\Windows\System32\drivers\etc\hosts*. The following figure is an example.

```

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

# localhost name resolution is handled within DNS itself.
# 127.0.0.1 localhost
# ::1 localhost

203.0.113.1 example.com

```

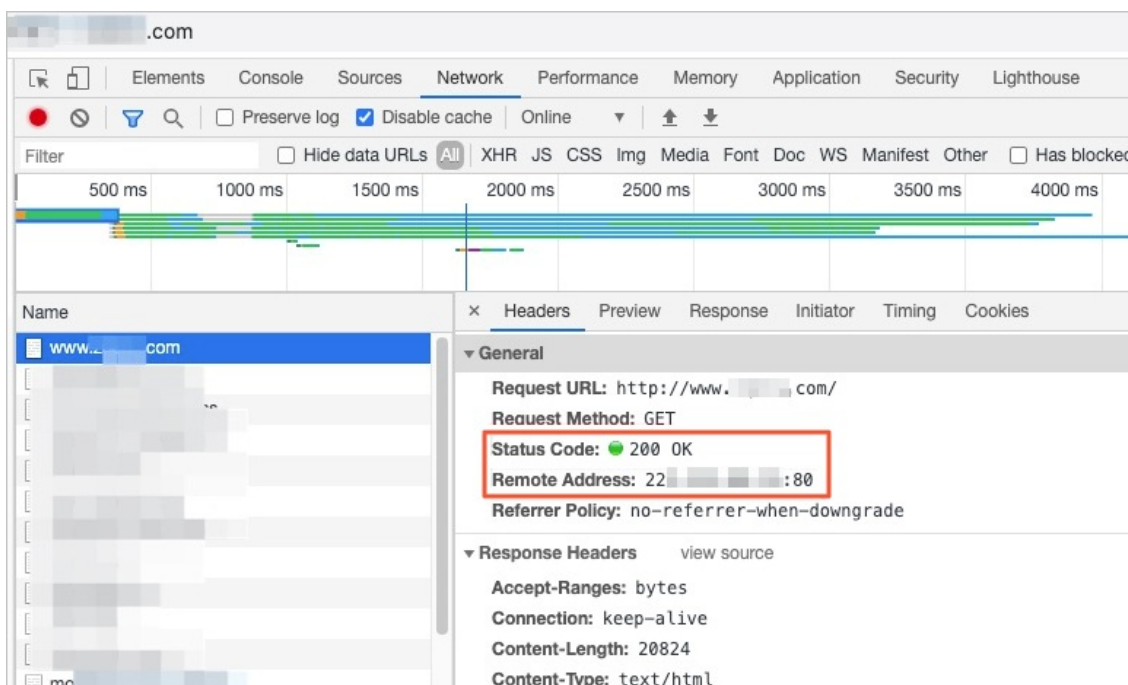
- o The path of the hosts file in macOS is *Finder>Go>Go to the folder>/etc/hosts*. The following figure is an example.

```
##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1        localhost
255.255.255.255 broadcasthost
::1             localhost
203.0.113.1     example.com
```

#### 4. Test whether the accelerated domain name is accessible.

After you add the IP address and accelerated domain name to the hosts file, you can open the browser and enter the accelerated domain name in the address bar to test the connectivity. You can view the test result by using the developer tool of the browser.

- If the IP address in the **Remote Address** field is the same as the one that you add to the hosts file, it indicates that the configuration is valid. You can configure the CNAME on the DNS service provider side.



- If the IP address in the **Remote Address** field is different from the one that you add to the hosts file, it indicates that the configuration is invalid. Make sure that you add the IP address of the CNAME to the hosts file.

After you access the accelerated domain name, you can also test other features by using the on-premises machine.

## What's next

**Add a CNAME record for a domain name:** After a domain name is added to Alibaba Cloud CDN, Alibaba Cloud CDN assigns a CNAME to the domain name. You must add a CNAME record for the domain name before CDN acceleration can take effect.

## 6. Add a CNAME record for a domain name

After you add a domain name to Alibaba Cloud CDN, the system assigns a CNAME to the domain name. You must add a CNAME record in the system of your DNS service provider to map the domain name to the CNAME before requests can be redirected to edge nodes. Otherwise, CDN acceleration cannot take effect. This topic describes how to add a CNAME record.

The following methods describe how to add a CNAME record on different cloud platforms:

- [Add a CNAME record on Alibaba Cloud](#)
- [Add a CNAME record on Tencent Cloud](#)
- [Add a CNAME record on Xinnet](#)
- [Check whether the CNAME record takes effect.](#)

### Prerequisites

A domain name is added to Alibaba Cloud CDN. For more information about how to add a domain name to Alibaba Cloud CDN, see [Add a domain name to Alibaba Cloud CDN](#).

#### Notice

- Make sure that the DNS records do not conflict with each other in the same system.
- The server that Alibaba Cloud CDN uses to resolve the CNAME of a domain name is deployed in mainland China. If you configure region-specific DNS settings for your domain names, for example, you add a CNAME record for your domain name in regions outside mainland China, including Hong Kong (China), Macao (China), Taiwan (China), the domain name cannot be mapped to the CNAME. The status of the CNAME is **Pending Configuration** in the Alibaba Cloud CDN console. However, CDN acceleration for the domain name is not affected.

### Domain name overview

A domain name consists of several hierarchical levels that are separated by periods ( . ). The right most part is called the top-level domain name. The top-level domain name is also called the suffix. Common top-level domain names include .com , .org , .net , and .cn . Some top-level domain names may contain two hierarchical levels, such as .com.cn , .org.cn , and .net.cn .

- A top-level domain name combined with a unique domain name is called a root domain name, such as aliyundoc.com and aliyundoc.com.cn.
- A third-level domain name is a lower level of the root domain name, such as example.aliyundoc.com and example.aliyundoc.com.cn.
- A fourth-level domain name is a lower level of the third-level domain name, such as "www.example.aliyundoc.com and www.example.aliyundoc.com.cn.

Third-level domain names and fourth-level domain names are also called subdomain names. For more information, see [Terms](#).

### Add a CNAME record on Alibaba Cloud

If your DNS service provider is Alibaba Cloud, perform the following steps to add a CNAME record for the domain name:

1. Log on to the Alibaba Cloud CDN console, navigate to the **Domain Names** page, and then copy the CNAME of the domain name.

Domain Names

Service Diagnosis

CloudMonitor





Add Domain Name

All Types

All Accelerated Regi...

Select Tags

Search by keyword

<input type="checkbox"/>	Domain Name	CNAME Status	CNAME	Status	HTTPS	Origin Server	Created At	Tag...	Actions
<input type="checkbox"/>	 .com	<div><div></div><div>Pending Co...</div></div>	 .com.wkumfuns1.com	<div><div></div><div>Enabled</div></div>	Disabled	 .com	Jul 19, 2021 11:30 AM		<div>Manage</div> <div>Recommended Features</div> <div>Copy</div>

2. Add a CNAME record.
  - i. Log on to the **Alibaba Cloud DNS console** with the **Alibaba Cloud account to which the domain name belongs**.
  - ii. (Optional) In the Alibaba Cloud CDN console, add a domain name that is not registered through Alibaba Cloud Domains.

**Note** If the domain name is not registered through Alibaba Cloud Domains, you must add the domain name to Alibaba Cloud DNS before you can add a DNS record for it. For more information, see [Domain management](#). If the domain name is registered through Alibaba Cloud Domains, skip this step.

- iii. On the **Manage DNS** page, find the domain name that you want to manage and click **Configure** in the Actions column.
- iv. Click **Add Record** and add a CNAME record.

**Note** The CNAME record of a specific domain name takes precedence over that of a wildcard domain name. If the domain name to be accelerated is a wildcard domain name, and the host record includes an asterisk (\*), you must delete all effective DNS records of the second-level domain names that match the wildcard domain name.

Add Record

Type:

A- IPV4 address

Host:

Enter ...

.xyz

ISP Line:

Default - Return to the default value when the query is not matched to any view.

\* Value:

Enter ...


\* TTL:

10 minute(s)

Cancel

Confirm

Parameter	Description	Example
Type	Select CNAME from the drop-down list.	CNAME
		<div><div><div>The domain name to be accelerated is a root domain name</div><div><div>If the domain name to be accelerated is aliyundoc.com, enter @.</div><div>If the domain name to be accelerated is aliyundoc.com, enter @.</div></div></div></div>

Parameter	Description	Examples
Host	<ul style="list-style-type: none"> <li>If the domain name to be accelerated is a root domain name, enter <code>@</code>.</li> <li>If the domain name to be accelerated is a wildcard domain name, enter <code>*</code>.</li> <li>If the domain name to be accelerated is a subdomain name, enter the prefix of the domain name.</li> </ul> <p>For more information about subdomain name, see <a href="#">Domain name overview</a>.</p>	<ul style="list-style-type: none"> <li><b>The domain name to be accelerated is a wildcard domain name</b> <ul style="list-style-type: none"> <li>If the domain name to be accelerated is <code>*.aliyundoc.com</code>, enter <code>*</code>.</li> <li>If the domain name to be accelerated is <code>*.aliyundoc.com</code>, enter <code>*</code>.</li> <li>If the domain name to be accelerated is <code>*.example.aliyundoc.com</code>, enter <code>*.example</code>.</li> <li>If the domain name to be accelerated is <code>*.example.aliyundoc.com.cn</code>, enter <code>*.example</code>.</li> </ul> </li> <li><b>The domain name to be accelerated is a subdomain name</b> <ul style="list-style-type: none"> <li>If the domain name to be accelerated is <code>example.aliyundoc.com</code>, enter <code>example</code>.</li> <li>If the domain name to be accelerated is <code>example.aliyundoc.com.cn</code>, enter <code>example</code>.</li> <li>If the domain name to be accelerated is <code>www.example.aliyundoc.com</code>, enter <code>www.example</code>.</li> <li>If the domain name to be accelerated is <code>www.example.aliyundoc.com.cn</code>, enter <code>www.example</code>.</li> </ul> </li> </ul> <div> <p> <b>Note</b> <code>.com.cn</code> is a top-level domain name that consists of two hierarchical levels.</p> <p>We recommend that you keep the default setting.</p> </div>
ISP Line	The default ISP line.	



Parameter	Description	Example
Value	<p>Enter the CNAME of the domain name.</p> <div> <p><b>Note</b> Each accelerated domain name is assigned a unique CNAME. Second-level domain names cannot use the CNAME of the top-level domain name. If you want to accelerate a second-level domain name, add the second-level domain name to Alibaba Cloud CDN. Alibaba Cloud then assigns a CNAME to the second-level domain name. Alternatively, you can add a second-level wildcard domain name to Alibaba Cloud CDN. Domain names that match the wildcard domain name are mapped to the CNAME of the wildcard domain name. For more information, see <a href="#">Add a domain name to Alibaba Cloud CDN</a>.</p> </div>	www.example.com.w.kunlunsl.com
TTL	Enter a time-to-live (TTL) value for the CNAME record. A smaller value indicates a shorter period of time to apply record updates. The default TTL value is 10 minutes.	We recommend that you keep the default setting.

v. Click OK.

If you add a CNAME record, it takes effect immediately. If you modify a CNAME record, it takes 10 minutes for the updates to take effect because the default TTL value of a CNAME record is 10 minutes. The time period varies based on the TTL value that you specify for the CNAME record. The system may prompt that you must add a CNAME record. Ignore the message.

## Add a CNAME record on Tencent Cloud



If your DNS service provider is Tencent Cloud, perform the following steps to add a CNAME record for the domain name:

1. Log on to the Alibaba Cloud CDN console, navigate to the [Domain Names](#) page, and then copy the CNAME of the domain name.

Domain Name	CNAME Status	CNAME	Status	HTTPS	Origin Server	Created At	Tag	Actions
example.com	Pending Co...	www.kunlunsl.com	Enabled	Disabled	example.com	Jul 19, 2021 11:30 AM		Manage Recommended Features Copy

2. Add a CNAME record.
  - i. Log on to the DNSPod console.
  - ii. On the DNSPod page, click **Add Records** and add a CNAME record.

Parameter	Description	Example
Host	<ul style="list-style-type: none"> <li>■ If the domain name to be accelerated is a root domain name, enter @ .</li> <li>■ If the domain name to be accelerated is a wildcard domain name, enter * .</li> <li>■ If the domain name to be accelerated is a subdomain name, enter the prefix of the domain name.</li> <li>■</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>The domain name to be accelerated is a root domain name</b> <ul style="list-style-type: none"> <li>■ If the domain name to be accelerated is aliyundoc.com, enter @ .</li> <li>■ If the domain name to be accelerated is aliyundoc.com, enter @ .</li> </ul> </li> <li>■ <b>The domain name to be accelerated is a wildcard domain name</b> <ul style="list-style-type: none"> <li>■ If the domain name to be accelerated is *.aliyundoc.com, enter * .</li> <li>■ If the domain name to be accelerated is *.aliyundoc.com, enter * .</li> <li>■ If the domain name to be accelerated is *.example.aliyundoc.com, enter *.example .</li> <li>■ If the domain name to be accelerated is *.example.aliyundoc.com.cn, enter *.example .</li> </ul> </li> <li>■ <b>The domain name to be accelerated is a subdomain name</b> <ul style="list-style-type: none"> <li>■ If the domain name to be accelerated is example.aliyundoc.com, enter example .</li> <li>■ If the domain name to be accelerated is example.aliyundoc.com.cn, enter example .</li> <li>■ If the domain name to be accelerated is www.example.aliyundoc.com, enter www.example .</li> <li>■ If the domain name to be accelerated is www.example.aliyundoc.com.cn, enter www.example .</li> </ul> </li> </ul>

Parameter	Description	Example
		<p>■</p> <p>Example</p> <p> <b>Note</b> .com.cn is a top-level domain name that consists of two hierarchical levels.</p>
Type	Select CNAME from the drop-down list.	CNAME
Split Zone	Select Default from the drop-down list.	We recommend that you keep the default setting.
Value	<p>Enter the CNAME of the domain name.</p> <p> <b>Note</b> Each accelerated domain name is assigned a unique CNAME. Second-level domain names cannot use the CNAME of the top-level domain name. If you want to accelerate a second-level domain name, add the second-level domain name to Alibaba Cloud CDN. Alibaba Cloud then assigns a CNAME to the second-level domain name. Alternatively, you can add a second-level wildcard domain name to Alibaba Cloud CDN. Domain names that match the wildcard domain name are mapped to the CNAME of the wildcard domain name. For more information, see <a href="#">Add a domain name to Alibaba Cloud CDN</a>.</p>	www.example.com.w.kunlunsl.com
Weight	You do not need to set this parameter.	N/A
MX	You do not need to set this parameter.	N/A

Parameter	Description	Example
TTL	Enter a TTL value for the CNAME record. A smaller value indicates a shorter period of time to apply record updates.	We recommend that you keep the default setting.

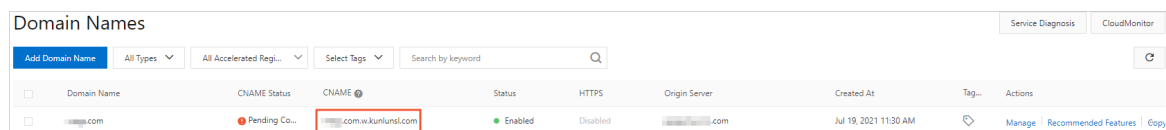
iii. Click **Confirm**.

If you add a CNAME record, it takes effect immediately. If you modify a CNAME record, it takes 10 minutes for the updates to take effect because the default TTL value of a CNAME record is 10 minutes. The time period varies based on the TTL value that you specify for the CNAME record. The system may prompt that you must add a CNAME record. Ignore the message.

## Add a CNAME record on Xinnet

If your DNS service provider is Xinnet, perform the following steps to add a CNAME record for the domain name:


1. Log on to the Alibaba Cloud CDN console, navigate to the **Domain Names** page, and then copy the CNAME of the domain name.




Domain Names									Service Diagnosis	CloudMonitor
<a href="#">Add Domain Name</a> All Types All Accelerated Regi... Select Tags Search by keyword										
<input type="checkbox"/>	Domain Name	CNAME Status	CNAME	Status	HTTPS	Origin Server	Created At	Tag...	Actions	
<input type="checkbox"/>	example.com	Pending Co...	com.kunlunsl.com	Enabled	Disabled	example.com	Jul 19, 2021 11:30 AM		<a href="#">Manage</a> <a href="#">Recommended Features</a> <a href="#">Copy</a>	

2. Add a CNAME record.
  - i. Log on to Xinnet.
  - ii. Navigate to the DNS records page and find the domain name that you want to manage. Click **Add CNAME Record** and add a CNAME record.

Parameter	Description	Example
-----------	-------------	---------

Parameter	Description	Example
CNAME	<p>Enter the CNAME that is assigned to the domain name.</p> <div>  <b>Note</b> Each accelerated domain name is assigned a unique CNAME. Second-level domain names cannot use the CNAME of the top-level domain name. If you want to accelerate a second-level domain name, add the second-level domain name to Alibaba Cloud CDN. Alibaba Cloud then assigns a CNAME to the second-level domain name. Alternatively, you can add a second-level wildcard domain name to Alibaba Cloud CDN. Domain names that match the wildcard domain name are mapped to the CNAME of the wildcard domain name. For more information, see <a href="#">Add a domain name to Alibaba Cloud CDN</a>. </div>	www.example.com.w.kunlunsl.com
		<ul style="list-style-type: none"> <li>■ <b>The domain name to be accelerated is a root domain name</b> <ul style="list-style-type: none"> <li>■ If the domain name to be accelerated is aliyundoc.com, enter @ .</li> <li>■ If the domain name to be accelerated is aliyundoc.com.cn, enter @ .</li> </ul> </li> </ul>

Parameter	Description	Examples
Points To	<ul style="list-style-type: none"> <li>If the domain name to be accelerated is a root domain name, enter <code>@</code>.</li> <li>If the domain name to be accelerated is a wildcard domain name, enter <code>*</code>.</li> <li>If the domain name to be accelerated is a subdomain name, enter the prefix of the domain name.</li> </ul>	<ul style="list-style-type: none"> <li><b>The domain name to be accelerated is a wildcard domain name</b> <ul style="list-style-type: none"> <li>If the domain name to be accelerated is <code>*.aliyundoc.com</code>, enter <code>*</code>.</li> <li>If the domain name to be accelerated is <code>*.aliyundoc.com.cn</code>, enter <code>*</code>.</li> <li>If the domain name to be accelerated is <code>*.example.aliyundoc.com</code>, enter <code>*.example</code>.</li> <li>If the domain name to be accelerated is <code>*.example.aliyundoc.com.cn</code>, enter <code>*.example</code>.</li> </ul> </li> <li><b>The domain name to be accelerated is a subdomain name</b> <ul style="list-style-type: none"> <li>If the domain name to be accelerated is <code>example.aliyundoc.com</code>, enter <code>example</code>.</li> <li>If the domain name to be accelerated is <code>example.aliyundoc.com.cn</code>, enter <code>example</code>.</li> <li>If the domain name to be accelerated is <code>www.example.aliyundoc.com</code>, enter <code>www.example</code>.</li> <li>If the domain name to be accelerated is <code>www.example.aliyundoc.com.cn</code>, enter <code>www.example</code>.</li> </ul> </li> </ul> <p> <b>Note</b> <code>.com.cn</code> is a top-level domain name that consists of two hierarchical levels. We recommend that you keep the default setting.</p>
TTL	Enter a TTL value for the CNAME record. A smaller value indicates a shorter period of time to apply record updates.	

iii. Click **Submit**.

If you add a CNAME record, it takes effect immediately. If you modify a CNAME record, it takes 10 minutes for the updates to take effect because the default TTL value of a CNAME record is 10 minutes. The time period varies based on the TTL value that you specify for the CNAME record. The system may prompt that you must add a CNAME record. Ignore the message.

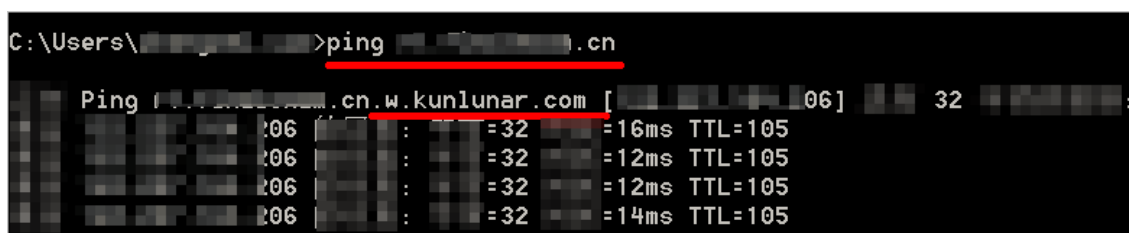
## Check whether the CNAME record takes effect.

- **Method 1: Quick verification in the Alibaba Cloud CDN console**

- i. Log on to the Alibaba Cloud CDN console and navigate to the [Domain Names](#) page.
- ii. Select the domain name and move the pointer over the CNAME Status column. The **CNAME Configuration Guide** tooltip appears.
- iii. Click **Open Configuration Guide** and then click **Search**.

- **Method 2: Run the ping command to ping the domain name**

- i. Open Command Prompt in Windows.
- ii. Run the **ping** command to ping the domain name. If the CNAME in the output is the same as the CNAME that is assigned to the domain name, it indicates that CDN acceleration is enabled for the domain name.



```
C:\Users\[redacted]>ping [redacted].cn

Ping [redacted].cn.w.kunlunar.com [ 06] 32 [redacted]:
[redacted] 32 : [redacted] = 16ms TTL=105
[redacted] 32 : [redacted] = 12ms TTL=105
[redacted] 32 : [redacted] = 12ms TTL=105
[redacted] 32 : [redacted] = 14ms TTL=105
```

## What to do next



After you complete the preceding settings, you can configure features of Alibaba Cloud CDN for the domain name. For more information, see [Features](#).

## 7. Disable or remove an accelerated domain name

If a domain name does not need to be accelerated by Alibaba Cloud CDN, you can disable the domain name or remove it from Alibaba Cloud CDN.

### Context

The following table describes the differences between disabling an accelerated domain name and removing an accelerated domain name.

Scenario	Operation	Description
<a href="#">Suspend acceleration for an accelerated domain name</a>	Disable the accelerated domain name	<p>After an accelerated domain name is disabled, acceleration is suspended. The status of the domain name changes to <b>Disabled</b>. Alibaba Cloud CDN maps the CNAME of the domain name to an invalid domain name. The settings of the domain name are retained on CDN edge nodes. If the resolution settings are cached on the local DNS server, or the mapping between the accelerated domain name and a CDN edge node is retained in the hosts file on a user client, data transfer is still generated. For more information about the offline state, see <a href="#">Rules for disabling accelerated domain names</a>.</p> <div><p> <b>Note</b> A disabled accelerated domain name is not removed from Alibaba Cloud CDN. The settings of the accelerated domain name are retained on CDN edge nodes. If you want to enable acceleration for the domain name again, navigate to the <b>Domain Names</b> page, find the domain name, and then click <b>Enable</b> in the Actions column.</p></div>
<a href="#">Permanently disable acceleration for an accelerated domain name</a>	Remove the accelerated domain name	<p>After an accelerated domain name is removed from Alibaba Cloud CDN, acceleration is permanently disabled. After an accelerated domain name is removed from Alibaba Cloud CDN, the settings of the domain name are also removed from CDN edge nodes. The domain name is no longer billed by Alibaba Cloud CDN.</p> <div><p> <b>Note</b> If a removed domain name wants to use Alibaba Cloud CDN again, add the domain name to Alibaba Cloud CDN again and complete relevant settings.</p></div>

### Prerequisites


Before you disable or remove an accelerated domain name, we recommend that you migrate the workloads of the domain name to another domain name to prevent service interruptions. You can migrate workloads from one domain name to another in the following ways:

- Add a domain name to Alibaba Cloud CDN to replace the one that you want to remove. Then, requests are sent to the new domain name. Workloads will be gradually migrated to the new domain name.




- In the DNS settings of the domain name that you want to remove, map the accelerated domain name to the origin server instead of the CNAME.

## Disable an accelerated domain name

1. Log on to the [Alibaba Cloud CDN console](#).
2. In the left-side navigation pane, click **Domain Names**.
3. On the **Domain Names** page, find the domain name that you want to disable and choose  **>**  
**Disable** in the **Actions** column.
4. In the message that appears, click **OK**.

## Remove an accelerated domain name from Alibaba Cloud CDN

1. Log on to the [Alibaba Cloud CDN console](#).
2. In the left-side navigation pane, click **Domain Names**.
3. On the **Domain Names** page, find the domain name that you want to remove and choose  **>**  
**Delete** in the **Actions** column.
4. In the message that appears, click **OK**.

## Related API operations

- [DeleteCdnDomain](#): disables an accelerated domain name.
- [DeleteCdnDomain](#): removes an accelerated domain name from Alibaba Cloud CDN.