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Quick Start

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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 .
Courier font	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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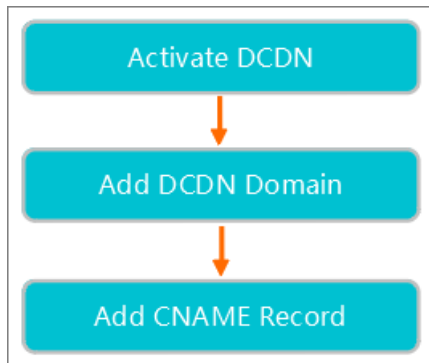
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1. Overview

This topic describes the operation process and the scenarios of Dynamic Route for CDN (DCDN) to help you get started.

DCDN CNAME accelerated domain

The following figure shows how to get started with DCDN.



The following table illustrates the steps for quick start.


No.	Step	Scenario
1	Activate the DCDN service	
2	Add a domain	If you want to accelerate a specific website, you must use the website as the origin server and create a domain name to accelerate for the website in the Dynamic Route for CDN (DCDN) console. DCDN caches static content from the origin server to cache nodes by using a domain name to accelerate. DCDN retrieves dynamic content from the origin server through dynamic acceleration technologies including smart routing and protocol optimization. In this way, resource access efficiency is enhanced. This topic describes how to add a domain name to accelerate.
3	Verify the configuration	Before a canonical name (CNAME) record is configured for the domain that you added, you can check whether the accelerated domain can be accessed. If the accelerated domain can be accessed, the DCDN service is running as expected after the CNAME record is configured.
3	Configure a CNAME record	After a domain is added to DCDN, the Alibaba Cloud DCDN team assigns a CNAME to the domain. To enable the DCDN service for the domain, you must configure a CNAME record to map the domain to the CNAME. This way, requests for the domain can be sent to the cache nodes of DCDN.

2. Activate DCDN

You can use Dynamic Content for CDN (DCDN) only after the service is activated. This topic describes how to activate the DCDN service.

Prerequisites

[Alibaba Cloud account registration](#) and [real-name verification](#) are completed.

 **Notice** Users from the Alibaba Cloud International site must complete real-name verification in the following scenarios:

- Based on the laws and the regulations in mainland China, real-name verification is required for the users who purchase and use cloud services that are deployed on the nodes in mainland China. The users are categorized into existing users, first-time users, and the users who renew the services.
- If you select a region in mainland China when you purchase a cloud service, the system checks the information that is provided for real-name verification. If you have not completed real-name verification for your account, you must first complete it.

Procedure

1. Log on to the [Alibaba Cloud DCDN platform](#).
2. Click **Buy Now**. On the page that appears, specify **Billing Method** based on your business requirements. For more information about DCDN pricing, see [Detailed pricing information about Dynamic Route for Content Delivery Network \(DCDN\)](#).
3. Click **Buy Now**.
4. On the **Confirm Order** page, select **Terms of Service**, and click **Activate Now**.
5. After you complete the payment, the DCDN service is activated. Click **Console** to log on to the DCDN console.

What's next

[Add a domain name](#)

3. Verify the ownership of a domain name

When you add a new domain name to Alibaba Cloud Dynamic Route for CDN (DCDN), DCDN verifies your ownership of the domain name. If you pass the verification, DCDN identifies you as the owner of the domain name. If you add the domain name to DCDN again or add its subdomain names to DCDN, ownership verification is not required. You can use a Domain Name System (DNS) record or upload a verification file to prove your ownership.


Context

In the following example, a.com is used to demonstrate how to prove the ownership of a domain name.

(Recommended) Method 1: Use a DNS record to prove the ownership

When you add a new domain name to DCDN, you can add a DNS record to prove that you own the domain name.

1. Obtain the record type, the host name, and the record value.
 - i. Log on to the [DCDN console](#).
 - ii. In the left-side navigation pane, choose **Domain Names > Add Domain Name**. Follow the instructions on the page to add a TXT record.

 **Note** To generate the record value, call the [DescribeDcdnVerifyContent](#) operation. You can also add a domain name to DCDN by calling the [AddDcdnDomain](#) operation. Before you call the [AddDcdnDomain](#) operation, you must call the [DescribeDcdnVerifyContent](#) operation to obtain the record value and then perform the following steps to add a TXT record.

2. Add a DNS record. In this example, Alibaba Cloud DNS is used to add a DNS record. You can add a DNS record through other service providers such as DNSPod or Xinnet in a similar way.
 - i. Log on to the [Alibaba Cloud DNS console](#).
 - ii. On the **Manage DNS** page, find the domain name a.com and click **Configure** in the Actions column.
 - iii. On the **DNS Settings** page, click **Add Record**.

- iv. Enter the record type, the host name, and the record value that you have obtained in Step 1.

The screenshot shows the 'Add Record' dialog box with the following fields:

- Type:** A dropdown menu with 'TXT-Text' selected.
- Host:** A text input field containing 'verification'.
- ISP Line:** A dropdown menu with 'Default - Return to the default value when the query is not matched to any view.' selected.
- * Value:** A text input field containing a long alphanumeric string.
- * TTL:** A dropdown menu with '10 minute(s)' selected.

Buttons at the bottom right: Cancel, Confirm.

- 3. Complete the verification process.
 - i. Log on to the [DCDN console](#).
 - ii. Click **Verify** to complete the verification process.

Method 2: Upload a verification file to prove the ownership

When you add a new domain name to DCDN, you can upload a verification file to prove that you own the domain name.

- 1. Log on to the [DCDN console](#).
- 2. In the left-side navigation pane, choose **Domain Names > Add Domain Name > Method 2: Verification File**.
- 3. Download the `verification.html` file.

Note To generate the verification strings that you must include in the `verification.html` file, call the [DescribeDcdnVerifyContent](#) operation. You can also add a domain name to DCDN by calling the [AddDcdnDomain](#) operation. Before you call the [AddDcdnDomain](#) operation, you must call the [DescribeDcdnVerifyContent](#) operation to obtain the verification strings. Then, include the verification strings in the `verification.html` file and perform the following step to upload the file.

- 4. Upload the verification file to the root directory of the origin server of your domain name. The origin

server can be an Elastic Compute Service (ECS) instance, Object Storage Service (OSS) bucket, Cloud Virtual Machine (CVM) instance, Container-Optimized OS (COS) instance, or Elastic Compute Cloud (EC2) instance. DCDN obtains the verification file by accessing the origin server at `http://a.com/verification.html` and determines whether the uploaded verification file meets requirements. Make sure that the verification file is accessible.

5. Click **Verify** to complete the verification process.

FAQ

The following issues may occur when you add a new domain name to DCDN:

- Why does DCDN verify the ownership of domain names?

DCDN verifies the ownership of a new domain name to ensure that the owner adds the domain name. If User B adds a domain name of User A, conflicts and security risks may occur.

- I have multiple Alibaba Cloud accounts. Do I need to pass the ownership verification for each account when I use different accounts to add new domain names to DCDN?

Yes, you must pass the ownership verification for each account. Each Alibaba Cloud account is recognized as an independent user. Before you can use an account to add a new domain name to DCDN, the account must pass the ownership verification.

- After I pass the ownership verification by adding a DNS record or uploading a verification file, can I delete the DNS record or the verification file?

Yes, you can delete the DNS record or the verification file after you pass the ownership verification. The DNS record or the verification file is used only for ownership verification.

- Do I need to prove my ownership of a domain name that is already added to DCDN?

No, you do not need to prove your ownership of existing accelerated domain names. Assume that you have added the domain name `b.a.com` to DCDN and the Canonical Name (CNAME) record that is assigned to the domain name works in an expected manner. In this case, you are considered to own the domain name `a.com`. If you add a subdomain name of `a.com`, such as `xx.a.com` or `xxx.a.com`, you do not need to perform the ownership verification.

- Do I need to prove my ownership of a domain name if I call the `AddDcdnDomain` operation to add the domain name to DCDN?

Yes, you need to prove your ownership of the domain name in this case. The verification method is similar to the method that is used if you use the DCDN console to add the domain name. You can add a DNS record or upload a verification file to the root directory of the origin server of your domain name. Then, call the `AddDcdnDomain` operation to add the domain name to DCDN.

- What can I do if I cannot prove my ownership of a domain name by adding a DNS record or uploading a verification file to the origin server?

To resolve this issue, you can [submit a ticket](#). In the ticket, provide the reason why you cannot use the given methods to prove the ownership and include the information that can identify you as the domain name owner. Then, wait for Alibaba Cloud to perform manual verification.

4. Add a domain name

If you want to accelerate a specific website, you must use the website as the origin server and create a domain name to accelerate for the website in the Dynamic Route for CDN (DCDN) console. DCDN caches static content from the origin server to cache nodes by using a domain name to accelerate. DCDN retrieves dynamic content from the origin server through dynamic acceleration technologies including smart routing and protocol optimization. In this way, resource access efficiency is enhanced. This topic describes how to add a domain name to accelerate.

Procedure

1. Log on to the [DCDN console](#).
2. In the left-side navigation pane, click **Domain Names**.
3. On the **Domain Names** page, click **Add Domain Name**.
4. Set **Domain Name to Accelerate**, **Business type**, **Origin Information**, and **Acceleration Region**.

← Add Domain Name

Basic Information

Domain Name to Accelerate
If the domain name already exists, it cannot be added. Chinese domain names are not supported. Wildcard domain names are allowed, for example *.test.com*. [Learn more.](#)

Resource Group

Business Type DCDN

Origin Information

Type OSS Domain
 IP
 Site Domain

Domain Name
Using OSS origin reduces your origin fetch traffic fees.

An OSS domain name must end with aliyuncs.com or aliyun-inc.com.

Port Port 80
 Port 443
By default, the dynamic origin protocol policy is following origin site port. To modify this setting, go to the Acceleration Rules page after you have added a domain name.

Acceleration Region Mainland China Only
 Global
 Global (Excluding Mainland China)

i Different pricing policies apply to Mainland China and overseas. Select a region that fits your needs. No ICP filing is required if you select Hong Kong, Macao, Taiwan, or overseas. [Learn more](#)

The following table describes the parameters that are required on the **Add Domain Name** page.

Parameter	Option	Description
Basic Information		


Parameter	Option	Description
Domain Name to Accelerate	None	<p>Enter the domain name that you want to add to DCDN, for example, <code>ch.aliyun.com</code> . When you specify this parameter, take note of the following rules:</p> <ul style="list-style-type: none"> You can use a subdomain name or a wildcard domain name. Example: <code>cdntest.example.com</code> . Wildcard domain names are supported and Chinese domain names are not supported. You cannot add a duplicate domain name. If a DomainAlreadyExist error occurs, submit a ticket. You can add a maximum of 50 domain names to DCDN within your Alibaba Cloud account. If the average daily peak bandwidth values exceed 50 Mbit/s and your workloads are under protection, you can submit a ticket to add more domain names to DCDN. Content that is served from the domain name must comply with the limits of DCDN. For more information, see Limits. <p>Note If the specified domain name already exists in Alibaba Cloud CDN or DCDN, the domain name cannot be added.</p>
Resource Group	None	<p>Select the resource group where the specified domain name belongs.</p> <p>Note If you have not activated the Resource Management service before you add the domain name, the Resource Group parameter is not displayed. To use the resource group feature, log on to the Resource Management console, follow the instructions to enable the resource group feature, and then create a resource group. For more information, see Create a resource group.</p>
Business Type	DCDN	You can use this feature to accelerate dynamic content delivery.
Origin Information		

Parameter	Option	Description
Type	OSS Domain	<p>If you select OSS Domain, you can enter the public domain name of an Alibaba Cloud Object Storage Service (OSS) bucket in the Domain Name field, for example, <code>xxx.oss-cn-hangzhou.aliyuncs.com</code>.</p> <p>Note To view the public domain name of an OSS bucket, go to the OSS console. You can also select the domain name of an OSS bucket under the current Alibaba Cloud account.</p>
	IP	<p>When you select IP as origin server type, you can enter the public IP address of the origin server in the IP field. You can specify the public IP addresses of one or more servers. IP addresses of Alibaba Cloud Elastic Compute Service (ECS) instances are exempt from manual review.</p>
	Site Domain	<p>If you select Site Domain, you can manually enter the domain name of your origin server in the domain field. You can specify the domain names of one or more origin servers.</p> <p>Note The domain name of the origin server that you specified 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. For example, if the domain name of your origin server is <code>img.yourdomain.com</code>, you can set the domain name to be accelerated to <code>cdn.yourdomain.com</code>.</p>
Port	None	<p>Select a port for accessing resources based on your business requirements.</p> <ul style="list-style-type: none"> Port 80 Port 80 of the origin server for back-to-origin requests from DCDN. Port 443 Port 443 of the origin server for back-to-origin requests from DCDN.
Acceleration Region	Mainland China Only	<p>If you select Mainland China Only, you must apply for an Internet content provider (ICP) filing with the Ministry of Industry and Information Technology of China. For more information, see ICP filing for domain names.</p>
	Global	<p>If you select Global, you must apply for an ICP filing with the Ministry of Industry and Information Technology of China. For more information, see ICP filing for domain names.</p>

Parameter	Option	Description
	Global (Excluding Mainland China)	If you select Global (Excluding Mainland China) , no ICP filing is required.

5. Click **Next**.

After the domain name is approved, the domain name is displayed in the **Domain Names** list. The status is displayed as **Running**. This indicates that the domain name has been added to DCDN.

 **Note**

- You can [submit a ticket](#) to speed up the review.
- If your origin server is an Alibaba Cloud ECS instance or an OSS bucket, the review process takes less time.
- After you add the domain name to DCDN, DCDN assigns a canonical name (CNAME) to the domain name. The DCDN service takes effect for the domain name only after you create the specific CNAME record for the domain name.

5. Verify an accelerated domain name

This topic describes how to verify the availability of an accelerated domain name in the Dynamic Route for CDN (DCDN) console.

Prerequisites

A domain name is added to DCDN for acceleration. For more information, see [Add a domain name](#).

Procedure

1. Query the canonical name (CNAME) of the accelerated domain name.
 - i. Log on to the [DCDN console](#).
 - ii. In the left-side navigation pane, click **Domain Names**.
 - iii. On the **Domain Names** page, copy the CNAME of the accelerated domain name.

Domain Name	CNAME	Status	HTTPS	Created At	Actions
test.com	test.com.w.kunluncan.com	Running	Inactive	Oct 27, 2020 10:58 AM	Configure Copy Configuration

Note We recommend that you copy the CNAME of the domain name that is in the Normal state.

2. Obtain the IP address that the host accesses.
 - o Windows: Launch the terminal and run the `ping CNAME` command.
 - o macOS: Launch the terminal and run the `dig CNAME` command.

```

dig test.com.w.kunluncan.com

; <<>> DiG 9.10.6 <<>> test.com.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:
; test.com.w.kunluncan.com. IN      A
;
;; ANSWER SECTION:
test.com.w.kunluncan.com. 60 IN      A      224.15

;; Query time: 18 msec
;; SERVER: 3... (1)
;; WHEN: 20
;; MSG SIZE rcvd: 74
    
```

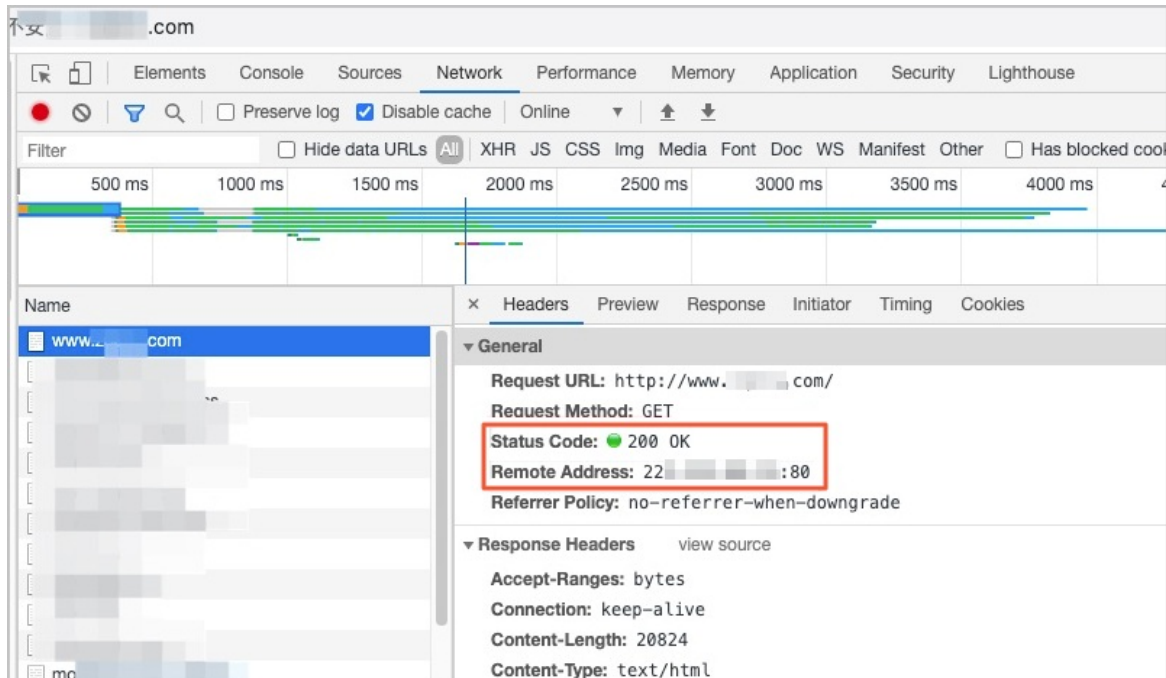
3. Configure the local hosts file.

- The path of the hosts file in Windows is *C:\Windows\System32\drivers\etc\hosts*.
- The path of the hosts file in macOS is *Finder>Go>Go to the folder>/etc/hosts*. Enter the */etc/hosts* path in the search bar.

```
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1 localhost
::1 localhost
22[redacted]15 www.[redacted].com
```

4. Check whether the accelerated domain name can be accessed.

After you configure the local hosts file, open your browser and enter the accelerated domain name to test the connectivity. Then, check whether the accessed domain name matches the accelerated domain name that is bound to the hosts file.



What's next

You can also test other features of your origin server on your local machine.

6. Configure a CNAME record

After a domain name is added to Alibaba Cloud Dynamic Route for CDN (DCDN), the DCDN service assigns a canonical name (CNAME) to the domain name. To enable the DCDN service, you must configure a CNAME record to map the domain name to the CNAME. This way, requests destined for the domain name can be sent to DCDN cache nodes. This topic describes how to configure a CNAME record for your domain name with Alibaba Cloud Domain Name System (DNS).

Procedure

1. Query the canonical name (CNAME) of the accelerated domain name.
 - i. Log on to the [DCDN console](#).
 - ii. In the left-side navigation pane, click **Domain Names**.
 - iii. On the **Domain Names** page, copy the CNAME of the accelerated domain name.

Domain Name	CNAME	Status	HTTPS	Created At	Actions
test.com	test.com.w.kunlunqan.com	Running	Inactive	Oct 27, 2020 10:58 AM	Configure Copy Configuration

Note We recommend that you copy the CNAME of the domain name that is in the **Normal** state.

2. Add a CNAME record for the domain name. The following example shows how to add a CNAME record for a domain name. The Alibaba Cloud DNS console is used in this example. If your DNS service is provided by other DNS service providers, such as DNSPod, Xinnnet, or GoDaddy, add a CNAME record for your domain name in the system of your service provider. The procedure is similar to the one that is described in this topic.
 - i. Log on to the [Alibaba Cloud DNS console](#).
 - ii. 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.

Note DCDN assigns a CNAME for each domain name that you want to accelerate. The CNAME of a primary domain name cannot be used by the second-level domain name. If you need to accelerate a second-level domain name, you must add the domain name to DCDN and resolve it to the corresponding CNAME. You can also add a wildcard domain name to DCDN because the CNAME of a wildcard domain name can be used by a second-level domain name.

The screenshot shows a dialog box titled "Add Record" with a close button (X) in the top right corner. It contains several fields: "Type" is a dropdown menu currently showing "A- IPv4 address"; "Host" is a text input field with "Enter ..." and a ".xyz" domain suffix; "ISP Line" is a dropdown menu showing "Default - Return to the default value when the query is not matched to any view."; "* Value" is a text input field with "Enter ..."; "* TTL" is a dropdown menu showing "10 minute(s)". At the bottom right, there are "Cancel" and "Confirm" buttons.

- Type: Select **CNAME** from the drop-down list.
- Host: Enter the prefix of the domain name.

Domain name	Host
testcdn.aliyun.com	testcdn
www.aliyun.com	www
aliyun.com	@
*.aliyun.com	*

- ISP Line: Use the default value.
- Value: Enter the CNAME that is assigned to the domain name.
- TTL: Use the default value.

iv. Click **OK**.

After the CNAME record takes effect, Alibaba Cloud CDN acceleration is automatically enabled for the domain name.

Note

- After you add a CNAME record, it immediately takes effect. After you modify a CNAME record, the modifications take effect within 72 hours.
- After you add a CNAME record, it takes about 10 minutes for the system to update the status in the console. The system may prompt that you must add a CNAME record. Ignore the message.

3. Check whether the CNAME record has taken effect.

- Open the Command Prompt in Windows.
- Run the **ping** command to ping the domain name. If the CNAME in the output matches the CNAME assigned to the domain name by DCDN in the DCDN console, the DCDN service is enabled for the domain name.

```
C:\Users\>ping .cn
Ping ( .cn.w.kunlunar.com [ 06 ] 32 :
: = 32 = 16ms TTL=105
: = 32 = 12ms TTL=105
: = 32 = 12ms TTL=105
: = 32 = 14ms TTL=105
```