Alibaba Cloud

dcdn Quick Start

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C-J Alibaba Cloud

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Document conventions

Style	Description	Example			
A 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.			
O 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.			
⑦ 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 cd /d C:/window command to enter the Windows system folder.			
Italic	Italic formatting is used for parameters and variables.	bae log listinstanceid Instance_ID			
[] or [a b]	This format is used for an optional value, where only one item can be selected.	ipconfig [-all -t]			
{} or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}			

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1.0verview

This topic describes how to activate the Dynamic Route for CDN (DCDN) service and use the service to accelerate your workloads.

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



- 1. Activate DCDN
- 2. Add a domain name
- 3. Configure acceleration rules
- 4. Check whether a domain name is accessible (optional)
- 5. Configure a CNAME record for a domain name

2.Activate DCDN

Before you can use the Dynamic Route for CDN (DCDN) service, you must activate the service. This topic describes how to activate DCDN.

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 DCDN console.
- 2. Click **Buy Now**. On the page that appears, specify a billing method.

For more information about the pricing of DCDN, see Detailed pricing information about DCDN.

- 3. Click Buy Now.
- 4. On the **Confirm Order** page, select **Terms of Service**, and click **Activate Now**.
- 5. After you pay for the order, DCDN is activated.

After DCDN is activated, you can click **Alibaba Cloud Management Console** to log on to the DCDN console.

What to do next

Add a domain name

Related API operations

OpenDcdnService

3.Add a domain name

If you want to use Dynamic Route for CDN (DCDN) to accelerate content delivery for a website, you must specify the website as the origin server and add the domain name of the website to DCDN. DCDN caches static content from the origin server on DCDN nodes by using the domain name. DCDN retrieves dynamic content from the origin server by using dynamic acceleration technologies such as intelligent routing and protocol optimization. This accelerates the delivery of static and dynamic content. After you add a domain name to DCDN, DCDN pushes the configurations of the domain name to all DCDN nodes. This process does not affect your business.

Prerequisites

- DCDN is activated. For more information, see Activate DCDN.
- An origin server that provides stable performance is deployed.
- The domain name that you want to accelerate is prepared. 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 apply for an ICP number in Alibaba Cloud ICP Filing System.

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. On the Add Domain Name page, configure the parameters that are described in the following table.

Step 1: Configure basic information

Basic Information	
* Domain Name to Accelerate	Enter a single domain name
	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	Select a resource group
Business Type	DCDN
Acceleration Region	Mainland China Only
	O Global
	O Global (Excluding Mainland China)
	Oifferent 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

Parameter	Description					
Domain Name to Accelerate	 Take note of the following rules: You can specify a wildcard domain name, such as *.aliyundoc.com For more information about the rules for wildcard domain names, see Does DCDN support wildcard domain names?. 					
	 Note The wildcard domain name that you specify and the domain names that match the wildcard domain name must belong to the same Alibaba Cloud account. When you add a domain name to DCDN, DCDN verifies the ownership of the domain name. If the wildcard domain name that you specify and the domain names that match the wildcard domain name belong to different Alibaba Cloud accounts, an error message appears. If you need technical support from Alibaba Cloud, submit a ticket. If a wildcard domain name is not added to DCDN, you can add the domain names that match the wildcard domain name to DCDN by using different Alibaba Cloud accounts. 					
	 You cannot add duplicate domain names to DCDN. If the DomainAlreadyExist error occurs, check whether the domain name is added to other Alibaba Cloud services such as ApsaraVideo VOD, ApsaraVideo Live, Alibaba Cloud CDN (CDN), Secure CDN (SCDN), and Video Surveillance System. You can submit a ticket to report this issue. The content that is delivered from the domain name must be legal and comply with the Terms of Service for DCDN. For more information, see Limits. If a domain name contains Chinese characters, such as 阿里云.网址, you must apply for an ICP number for the domain name. You must use the Punnycode tool to convert the Chinese domain name to an English domain name, such as xnfiq****.xneq****. 					
Resource Group	Select the default resource group or a custom resource group. For more information about how to create a resource group, see Create a resource group .					
Business Type	DCDN : You can use this feature to accelerate the delivery of dynamic and static content.					

Parameter	Description					
Acceleration Region	Select an accelerated region. If you select Mainland China Only or Global , you must apply for an ICP number for the domain name. We recommend that you apply for ICP numbers in Alibaba Cloud ICP Filing System. The Ministry of Industry and Information Technology (MIIT) may not immediately update data in the database after you submit domain name information. We recommend that you configure the domain name in DCDN eight hours after you submit the domain name information.					
	Note The pricing varies based on the accelerated region. Choose an accelerated region based on your business requirements. For more information about the pricing of DCDN, see DCDN Pricing.					
	0					

Step 2: Configure an origin server

- i. On the Add Domain Name page, click Add Origin Server.
- ii. In the **Add Origin Server** dialog box, configure the parameters that are described in the following table.

Add Origin Se	erver ×				
Туре	OSS Domain				
	● IP				
	O Site Domain				
IP	Enter an IP address				
	Only IPv4 addresses are supported.				
Priority	Active				
	Standby				
Weight 😰	10				
Port 👔	Port 80				
	O Port 443				
	OK Cancel				
Parameter	Description				

Parameter	Description					
Type	 Description OSS Domain 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, you can enter xxx.oss-cn-hangzhou.aliyuncs.com. Internal domain names of OSS buckets are not supported. You can view the public domain name of an OSS bucket in the OSS console. You can also select an OSS bucket that belongs to the current Alibaba Cloud account from the Domain Name drop-down list. IP If you select IP, you can enter the public IP address of the origin server in the IP field. You can 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. Private IP addresses are not supported. Site Domain If you select Site Domain, you can enter the domain name of your origin server in the Domain Name field. Image: The origin domain name must be different from the accelerated domain name. If the origin domain name is the same as the accelerated domain name, a DNS resolution loop occurs, and requests cannot be redirected to the origin server. The domain name contains Chinese characters, such as IPI里云, Mat, you must apply for an ICP number for the domain name. You must use the Punycode tool to convert the Chinese domain name to an English domain name, such as xnfiq****.xneq****. 					
Priority	You can configure priorities to specify primary and secondary origin servers. The primary origin server has a higher priority than the secondary origin server. DCDN preferentially redirects requests to the primary origin server. For example, if you specify Origin Server A as the primary origin server and specify Origin Server B as the secondary origin server, user requests are preferentially redirected to Origin Server A. If Origin Server A is down, user requests are redirected to Origin Server B until Origin Server A works as expected again.					

Parameter	Description
Weight	If origin servers have the same priority, DCDN redirects requests to the origin servers based on the weights of the origin servers. This way, loads are balanced among the origin servers. The weight of an origin server ranges from 0 to 100. An origin server that has a higher weight receives a larger number of requests. For example, you specify Origin Server A and Origin Server B as primary origin servers. If the weight of Origin Server A is 80 and the weight of Origin Server B is 20, DCDN redirects 80% of requests to Origin Server A and 20% of requests to Origin Server B.
	 Select a port based on the protocol that is supported by the origin server. Port 80: Requests are redirected to the origin server over port 80. Port 443: Requests are redirected to the origin server over port 443. Make sure that the origin server supports HTTPS.
Port	Note Before you can specify a custom port, you must set Static Origin Protocol Policy and Dynamic Origin Protocol Policy to HTTP after you add a domain name. For more information, see Configure the static origin protocol policy and Configure back-to-origin requests to retrieve dynamic content .

- iii. Click OK.
- 5. Click Next.

The first time you add a domain name to the DCDN console, DCDN verifies the ownership of the domain name. If the ownership of the domain name is verified, skip this step. For more information, see Verify the ownership of a domain name.

6.

What to do next

Configure acceleration rules

Related API operations

API	Description
AddDcdnDomain	Adds a domain name to DCDN.
BatchAddDcdnDomain	Adds one or more domain names to DCDN at a time.
VerifyDcdnDomainOwner	Verifies the ownership of a domain name by using DNS resolution.
DescribeDcdnVerifyContent	Verifies the ownership of a domain name by using file verification.

4.Configure acceleration rules

Dynamic Route for CDN (DCDN) is commonly used to accelerate the delivery of dynamic content. After you add a domain name to DCDN, you must enable acceleration for dynamic content delivery, and configure acceleration rules for static and dynamic content delivery. Static content is cached on DCDN nodes, and requests for dynamic content are redirected to origin servers based on technologies such as intelligent routing and protocol optimization.

- To accelerate the delivery of dynamic content, such as PHP, JSP, and ASP files, you can log on to the DCDN console, navigate to the Acceleration Rules page, and then turn on Dynamic Acceleration.
- To accelerate the delivery of static content, such as images, application packages, JavaScript files, and CSS files, you can create a cache expiration rule based on the file types and update frequency. The maximum time-to-live (TTL) for cached content is three years. For more information, see Configure the static file types.

File type	Update frequency	TTL value	Example
Static file	Infrequently updated	One month or longer	Images and application packages
Static file	Frequently updated	Less than one month. You can specify a TTL value based on your business requirements.	JavaScript and CSS files

5.Check whether a domain name is accessible (optional)

After you add a domain name to Dynamic Route for CDN (DCDN), we recommend that you test whether the domain name is accessible before you update the Canonical Name (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 test whether a domain name is accessible after it is mapped to the CNAME assigned by DCDN.

Note During the test, requests are sent to DCDN nodes. You are charged for the basic services and value-added services that you have used. The billing rules of DCDN apply in the test. For more information, see Billing overview.

Prerequisites

- A domain name is added to DCDN. If you have not added a domain name to DCDN, add one. For more information, see Add a domain name.
- You can access services of the origin server.

Procedure

- 1. Obtain the CNAME that is assigned to the 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 domain name.

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

Domain Names							
Add Domain Name	Select Tag 💙 Enter a domain name keyword	Q					
Domain Name	CNAME		Status 🙄	HTTPS	Created At	Tags 🚱	Actions
.com	.w.kunlunsl.com		Running	Inactive	Feb 19, 2021 5:39 PM	\bigcirc	Configure Copy Configuration

2. Obtain the IP address of the CNAME.

? Note The following IP address is an example retuned 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.

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.

• 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 client host
                   x.acme.com
# localhost name resolution is handled within DNS itself.
               localhost
# 127.0.0.1
# ::1
             localhost
    203.0.113.1
                  example.com
```

• 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.

.cor	n						
Eleme	nts Console	Sources Net	work Perform	nance Merr	nory Application	Security	Lighthouse
	Preserve le	og 🔽 Disable cad	che Online	v <u>+</u>	ŧ.		
Filter	🗌 Hie	de data URLs All	XHR JS CS	S Img Media	Font Doc WS	Manifest Other	Has blocked
500 ms	1000 ms	1500 ms	2000 ms	2500 ms	3000 ms	3500 ms	4000 ms
						_	
		-					
Name			× Headers	Preview Re	esponse Initiator	Timing Co	okies
wwwcom				TTOVIOW THE		Tinning 00	UNICS
			 General 				
[10	_	Request UR Request Me		/w. com/		
			Status Code				
				ress: 22	.80		
					rrer-when-downg	irade	
[-		-			
[Response Heat		w source		
			Accept-Ran	-			
		U		keep-alive			
			Content-Len	-			
mo			Content-Typ	e: text/html	l .		

• 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 onpremises machine.

What's next

Configure a CNAME record for a domain name

6.Configure a CNAME record for a domain name

After you add a domain name to Dynamic Route for CDN (DCDN), the system assigns a canonical name (CNAME) to the domain name. To map the domain name to the CNAME, you must configure a CNAME record for the domain name. This way, requests that are destined for the domain name are redirected to DCDN nodes, which helps accelerate content delivery. If an A record conflicts with the CNAME record that you want to use, change the A record to a CNAME record.

Methods that are used to configure a CNAME record

You must configure CNAME records in the system of your DNS service provider. This topic describes how to configure a CNAME record on Alibaba Cloud, Tencent Cloud, and Xinnet. You can use similar methods to configure a CNAME record in the systems of other DNS service providers.

- For more information about how to configure a CNAME record on Alibaba Cloud, see Configure a CNAME record on Alibaba Cloud.
- For more information about how to configure a CNAME record on Tencent Cloud, see Configure a CNAME record on Tencent Cloud.
- For more information about how to configure a CNAME record on Xinnet, see Configure a CNAME record on Xinnet.

Configure a CNAME record on Alibaba Cloud

- 1. Obtain the CNAME that is assigned to the 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 domain name.

Domain Names						
Add Domain Name	Select Tag 💙 Enter a domain name keyword	Q				
Domain Name	CNAME	Status 🙄	HTTPS	Created At	Tags 😰	Actions
.com	e .w.kunlunsl.com	Running	Inactive	Feb 19, 2021 5:39 PM	\bigtriangledown	Configure Copy Configuration

- 2. Add a CNAME record for the domain name.
 - i.
 - ii.

iii. Click Add Record to add a CNAME record.

? Note

• If the CNAME record that you want to add conflicts with an existing DNS record, we recommend that you change the domain name or modify the DNS record.

Parame ter	Description	Example
Туре	Select CNAME from the drop-down list.	CNAME
Host		•
ISP Line	Specify the default ISP line.	Keep the default setting.
Value	Enter the CNAME that is assigned to the domain name. Note Each 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, you must add the domain name to DCDN and resolve the domain name to the CNAME that you want to use. The CNAME of a wildcard domain name. Therefore, you can also add a wildcard domain name to DCDN. For more information, see Add a domain name.	
TTL	Enter a time-to-live (TTL) value for the CNAME record. A smaller value specifies a shorter time to apply record updates. The default TTL value is 10 minutes.	Keep the default setting.

iv. Click OK.

After the CNAME record takes effect, the domain name is immediately accelerated. After you add a CNAME record, the CNAME record immediately takes effect. After you modify a CNAME record, the modifications take effect within 72 hours. After you add a CNAME record, the system takes approximately 10 minutes to update the status in the DCDN console. During this process, a message may appear, which prompts you to add a CNAME record. Ignore the message.

3. Check whether the CNAME record takes effect

i.

ii. Run the **ping** command to ping the domain name. If the CNAME in the output matches the CNAME that is assigned to the domain name in the DCDN console, the DCDN service is enabled for the domain name.

Configure a CNAME record on Tencent Cloud

- 1. Obtain the CNAME that is assigned to the 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 domain name.

Domain Nam	ies						
Add Domain Name	elect Tag \vee Enter a domain name keyword	Q					
Domain Name	CNAME		Status 🙄	HTTPS	Created At	Tags 🕲	Actions
com	.w.kunlunsl.com		Running	Inactive	Feb 19, 2021 5:39 PM	\bigcirc	Configure Copy Configuration

2. Add a CNAME record for the domain name.

1		
I	•	

Parame ter	Description	Example
Host		•
Туре	Select CNAME from the drop-down list.	CNAME
Line Type	Select Default from the drop-down list.	Keep the default setting.
	Enter the CNAME that is assigned to the domain name.	
Value	Note Each 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, you must add the domain name to DCDN and resolve the domain name to DCDN and resolve the domain name can be used by a second-level domain name. Therefore, you can also add a wildcard domain name to DCDN. For more information, see Add a domain name.	
Weight	You do not need to set this parameter.	N/A
МХ	You do not need to set this parameter.	N/A
TTL		Keep the default setting.

ii. On the DNSPod page, click Add Records to add a CNAME record.

iii. Click Confirm.

After the CNAME record takes effect, the domain name is immediately accelerated. After you add a CNAME record, the system takes approximately 10 minutes to update the status in the DCDN console. During this process, a message may appear, which prompts you to add a CNAME record. Ignore the message.

3. Check whether the CNAME record takes effect

i.

ii. Run the **ping** command to ping the domain name. If the CNAME in the output matches the CNAME that is assigned to the domain name in the DCDN console, the DCDN service is enabled for the domain name.

Configure a CNAME record on Xinnet

- 1. Obtain the CNAME that is assigned to the 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 domain name.

Domain Names						
Add Domain Name	Select Tag 💙 Enter a domain name keyword	Q				
Domain Name	CNAME	Status 🙄	HTTPS	Created At	Tags 🚱	Actions
com	e .w.kunlunsl.com	🔮 Running	Inactive	Feb 19, 2021 5:39 PM	\bigcirc	Configure Copy Configuration

2. Add a CNAME record for the domain name.

1.	

ii. Go to the DNS records page and find the domain name that you want to manage. Then, click Add CNAME Record to add a CNAME record.

Parame ter	Description	Example
	Enter the CNAME that is assigned to the domain name.	
CNAME	Note Each 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, you must add the domain name to DCDN and resolve the domain name to DCDN and resolve the domain name to the CNAME that you want to use. The CNAME of a wildcard domain name. Therefore, you can also add a wildcard domain name to DCDN. For more information, see Add a domain name.	
CNAME Host	Enter the prefix of the domain name.	
TTL		Keep the default setting.

iii. Click Submit .

After the CNAME record takes effect, the domain name is immediately accelerated. After you add a CNAME record, the system takes approximately 10 minutes to update the status in the DCDN console. During this process, a message may appear, which prompts you to add a CNAME record. Ignore the message.

3. Check whether the CNAME record takes effect

i.

ii. Run the **ping** command to ping the domain name. If the CNAME in the output matches the CNAME that is assigned to the domain name in the DCDN console, the DCDN service is enabled for the domain name.

References

If the cache hit ratio is lower than expected after you use DCDN to accelerate content delivery for a domain name, you can configure and enable the prefetch feature. The prefetch feature allows DCDN to prefetch content from origin servers to DCDN nodes during off-peak hours. This increases the cache hit ratio. For more information, see Refresh and prefetch.