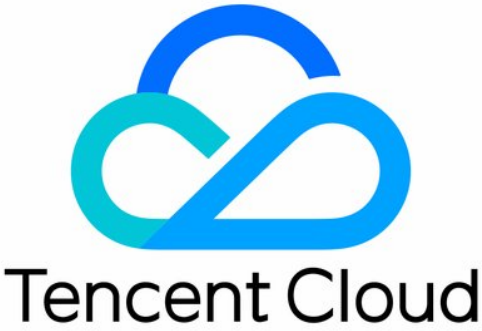
Enterprise Content Delivery Network

Getting Started

Product Documentation



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Getting Started
Configuring ECDN

Last updated：2021-12-13 15:35:20

Tencent Cloud ECDN integrates static edge caching and dynamic origin-pull route optimization. Through Tencent's global nodes, ECDN can solve problems such as slow response, packet loss, and service instability caused by cross-border and cross-ISP data transfer.
To configure ECDN, follow the steps below to sign up for a Tencent Cloud account, activate ECDN, add a domain name, and configure CNAME.

> Note：
> If you use ECDN for the first time, consult Configuring CDN from Scratch.

Step 1. Sign up for a Tencent Cloud account

If you already have a Tencent Cloud account, you can ignore this step.

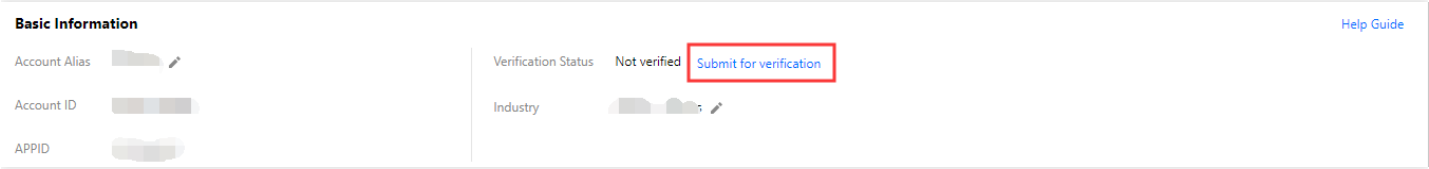
Click here to sign up for a Tencent Cloud account

Step 2: Activate the ECDN service

1. Complete identity verification

Registered users must first complete identity verification in order to activate CDN. You can verify your identity in the CDN console or Account Center. For more information on the verification process, please see Identity Verification Guide.

Click here to go to the Account Center



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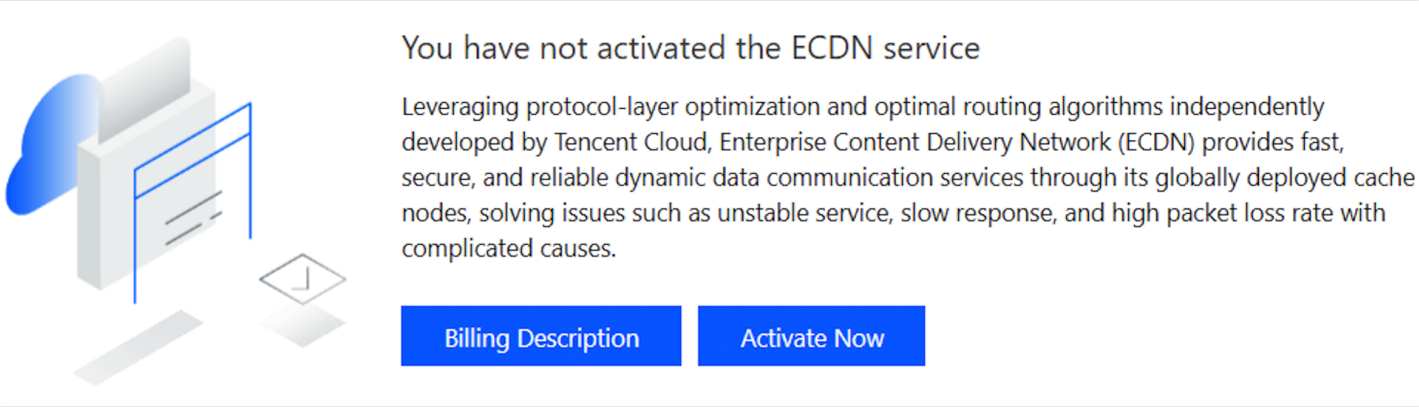
2. Activate the ECDN service

After identity verification is completed, log in to the ECDN Console to activate ECDN service.



Step 3. Connect a domain name

ECDN caches the static resources on the origin server to the cache node through the acceleration domain name, and quickly pulls the dynamic content from the origin server through intelligent routing optimization, protocol optimization, and other dynamic acceleration technologies to achieve resource access acceleration. For more information, please see Domain Name Connection

Step 4. Configure CNAME

After connecting your domain name to ECDN, you need to configure the CNAME with your domain name provider. The ECDN service will be available after the configuration takes effect. For more information, please see CNAME Configuration.

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Domain Name Connection

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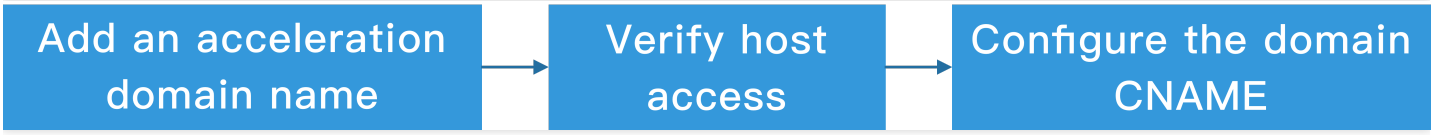
Process Overview



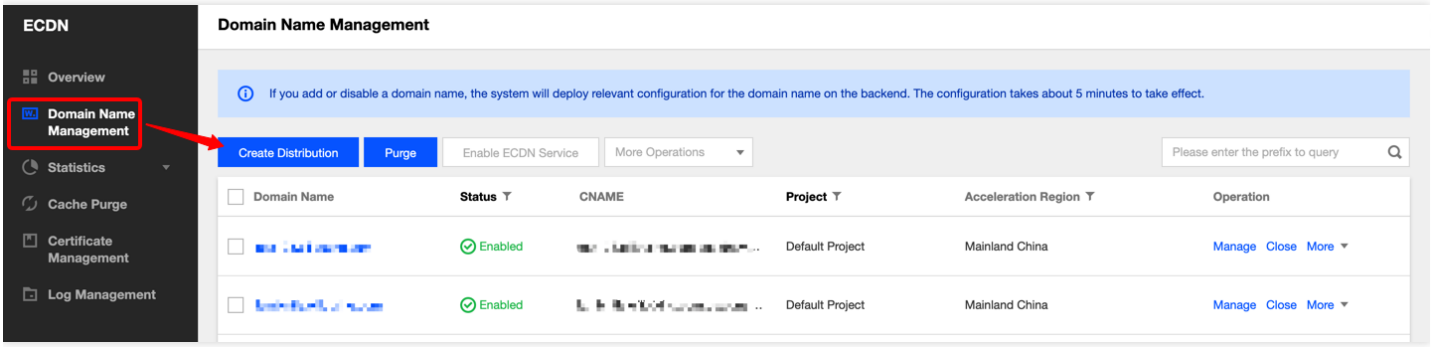
The main steps in connecting an acceleration domain name to ECDN include:

1. Add an acceleration domain name configuration on the platform.
2. Access your business with the `hosts` file to verify the business compatibility.
3. Switch the CNAME record to forward requests to ECDN.

Step 1. Add an acceleration domain name

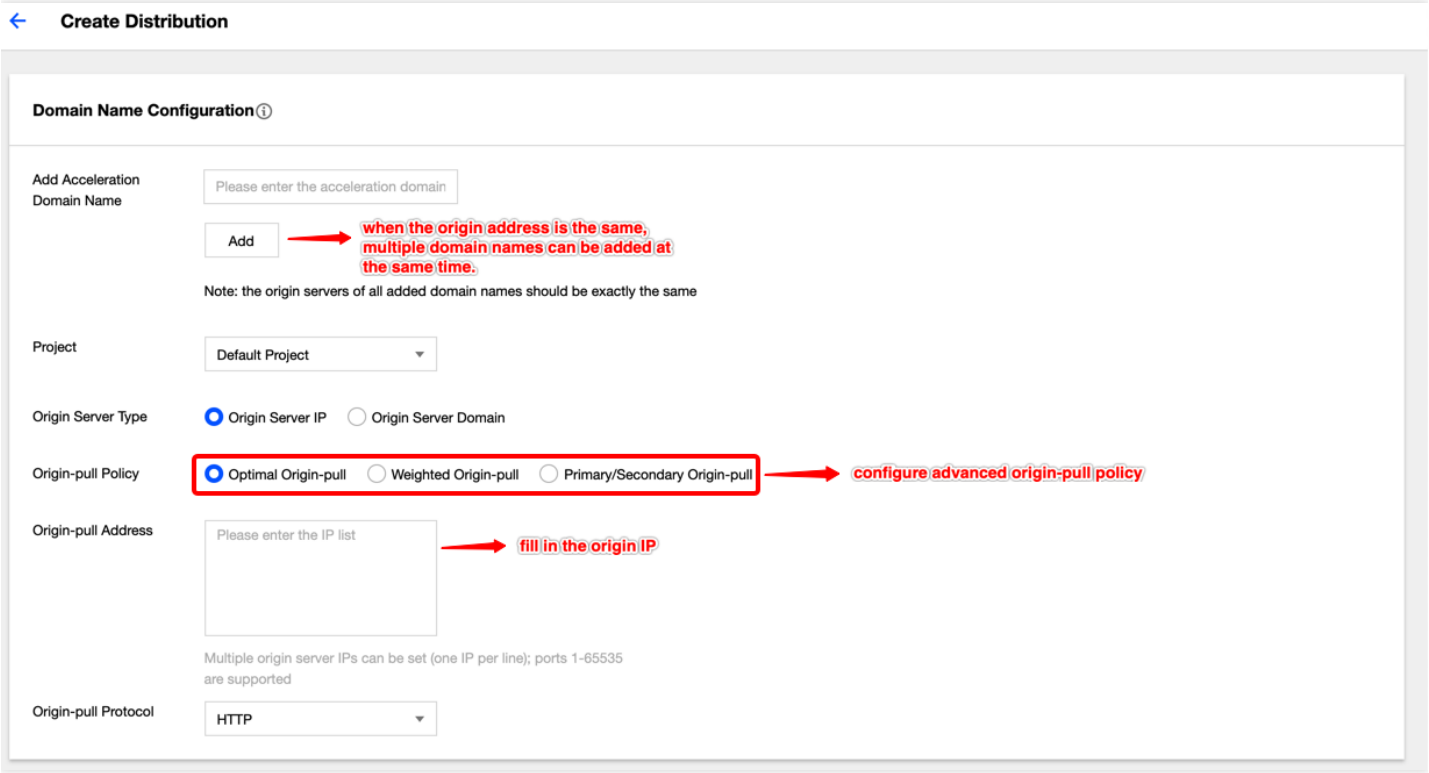
1. Enter the domain management page

Log in to the ECDN Console and click **Domain Management** on the left sidebar to enter the **Domain Management** page. Click **Add Domain Name** to enter the **Add Domain Name** page.



2. Enter the domain name information

On the **Add Domain Name** page, enter the acceleration domain name information as instructed.



Note：

- If the acceleration regions are in the mainland of China, according to relevant laws and regulations, the new acceleration domain name must have been filed on record on MIIT's ICP filing website or have obtained ICP filing through [ICP filing registration], and has not connected to Tencent Cloud CDN or ECDN before. The domain name that has been connected to the CDN needs to be deleted before being added to the ECDN platform.
- You can manage domain names by project in the **Project** section. Here, a project is shared by all Tencent Cloud products. You can manage projects in Project Management.
- If the origin server type is **origin IP**, optimal route selection, weighted, and primary/secondary origin-pull policies are supported. For more information, please see configuration methods in Advanced Origin-Pull Policies.
- If the origin server type is **origin domain**, you can enter only one domain name, which must be different from the acceleration domain name. You can set the port in `Host:Port` format, and the port number should be between 1 and 65535.
- When you add a domain name, ECDN will display the default regular caching rules. You can modify or manage them in the rule list for customization for the domain name.

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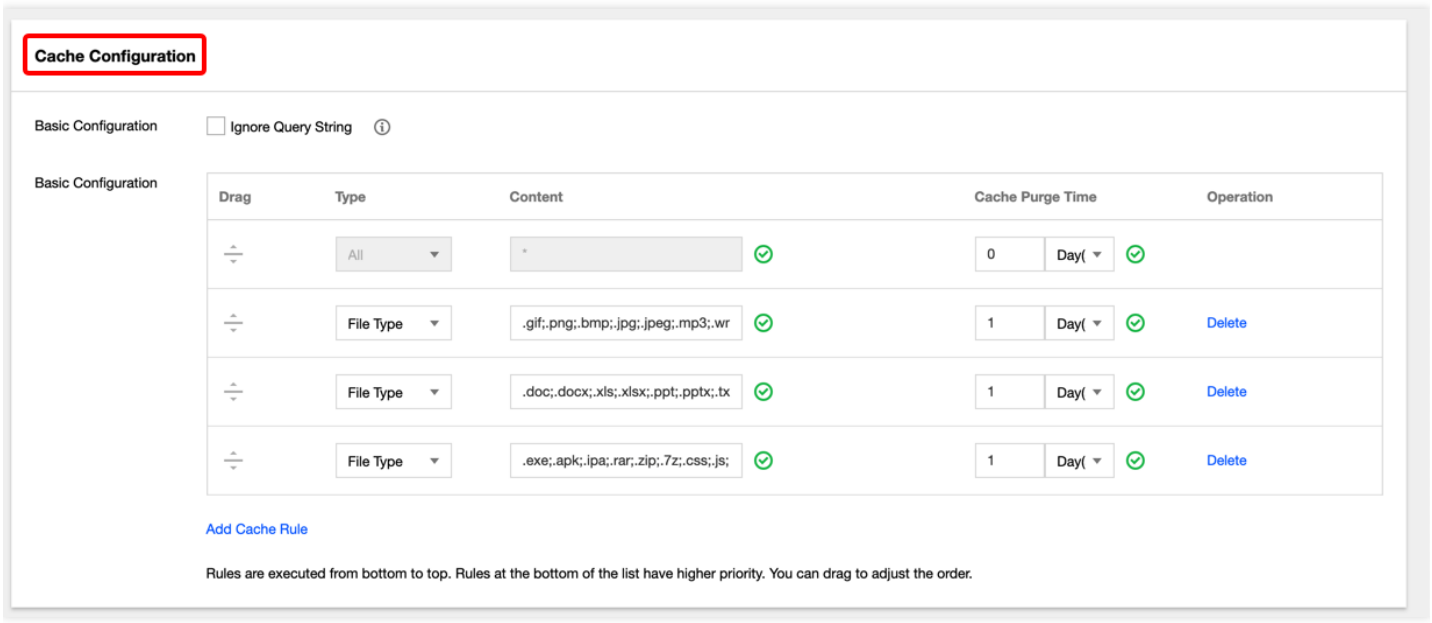
3. Select the origin-pull protocol

Select the transfer protocol used for communication between the edge server and origin server.

4. Configure caching rules

Configure caching rules for dynamic and static content of the domain name. You can use the recommended configurations by default or click **Edit Caching Rule** to edit the rules.



5. Click "Submit"

After the domain name is configured, click **Submit** to add it. In the pop-up box, click **Go to Domain Name List** to view the domain name status. After the domain name is added, the system will deploy relevant configurations on the backend, which will take effect in about 5 minutes.

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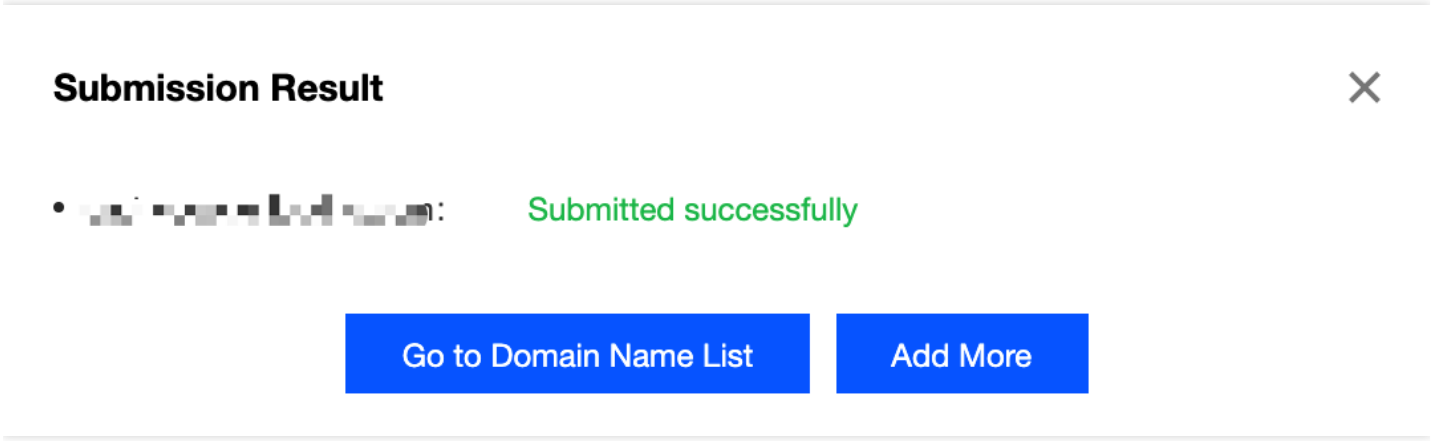
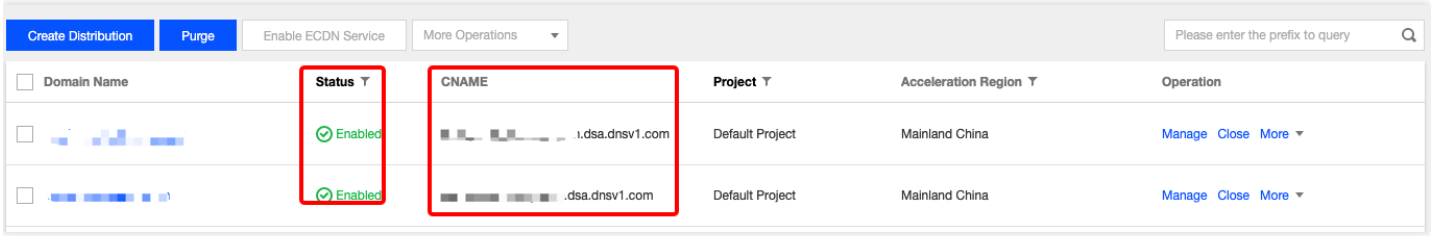


To configure the domain name with HTTPS, you can do so as instructed in HTTPS Settings after adding the domain name.

Step 2. Verify access with `hosts`

To ensure continuity of access to your business, you are recommended to set the local `hosts` file to verify whether access is normal before formally switching the CNAME resolution. If your page contains multiple dynamic domain names, you can add them in batches for verification

1. Get a CNAME domain name



Note：

1. Before verification with `hosts`, please make sure that the domain name is **activated**.
2. The CNAME address of ECDN is suffixed with `.dsa.dnsv1.com`, which can be viewed on the **Domain Management** page.

2. Resolve the CNAME domain name to get the ECDN cache node IP

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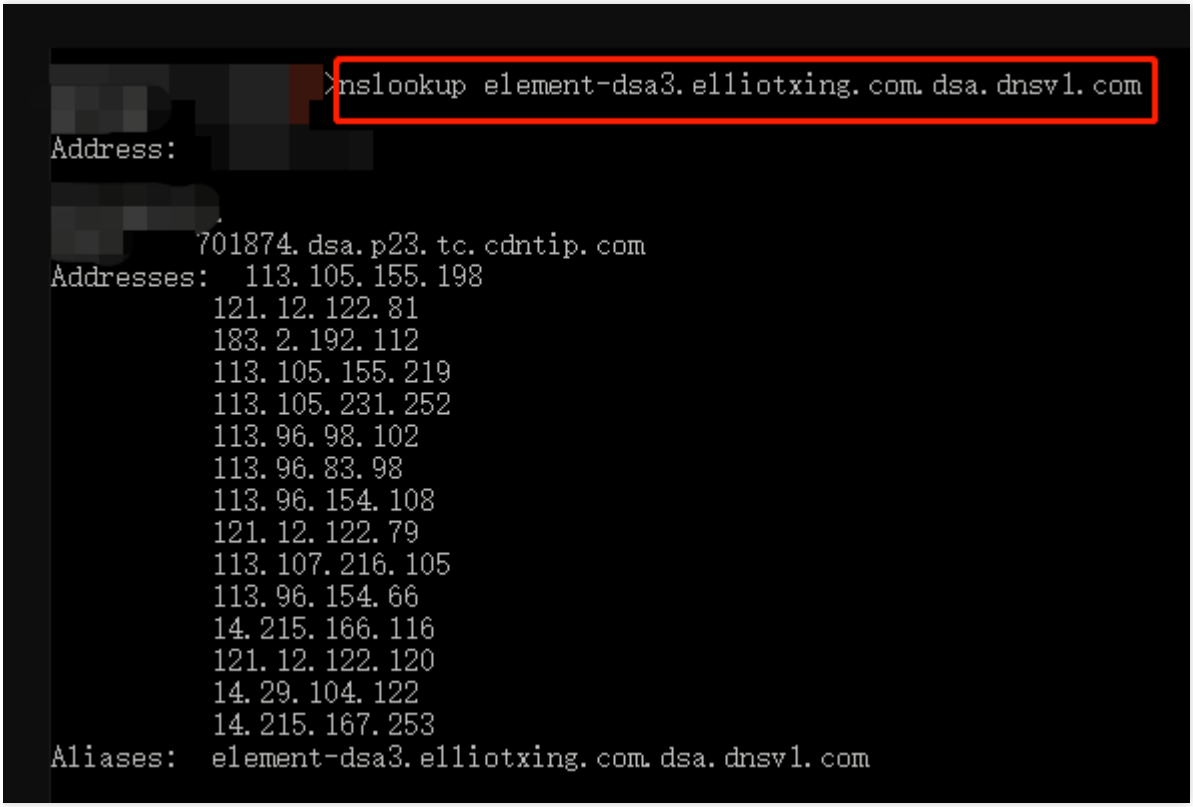
Run `nslookup` on the local command line to resolve the ECDN CNAME domain name so as to get the IP address of the cache node.



3. Set `hosts`

You can configure the local `hosts` file to forcibly redirect access requests to the local server to the ECDN platform, so that you can verify the platform compatibility without affecting formal access to your business.
The following uses the `hosts` file on Windows as an example to show the settings. It is generally stored in

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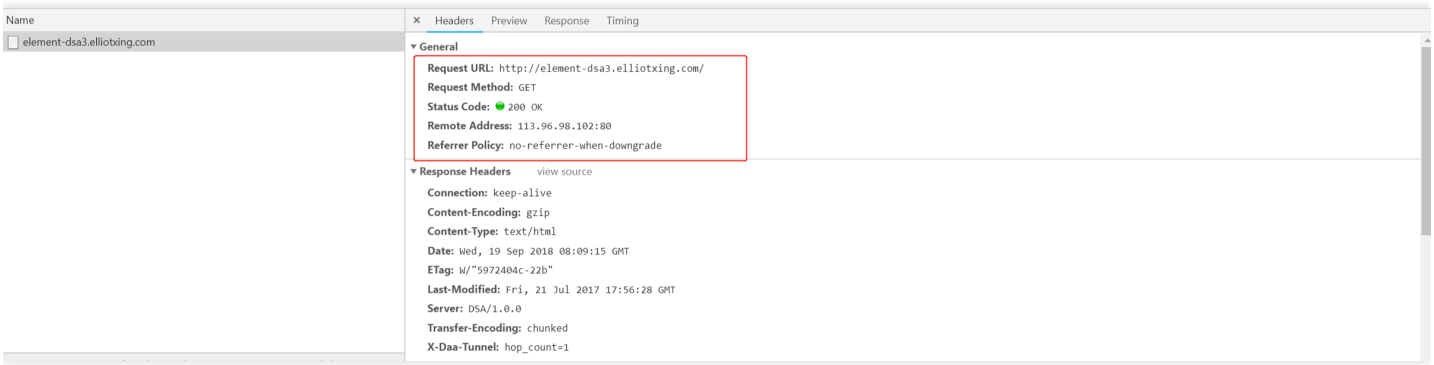
`C:\Windows\System32\drivers\etc\hosts` :

```
# 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
113.96.98.102 element-dsa3.elliotxing.com
```

4. Verify access

After setting the `hosts` file, you can access resources under the acceleration domain name with a browser. The following uses Chrome as an example to show how to access the domain name:



Note：

By using the built-in packet capture tool in the browser, you can see that:

- The request address of the acceleration domain name is pointed to the ECDN node `113.96.98.102` .

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- The request response status code of the acceleration domain name is `200 OK`, indicating that user requests can be responded to normally, which meets the test expectation.
- If the response status code of the acceleration domain name is exceptional, you can submit a ticket. Please attach screenshots of your operations in the ticket to facilitate troubleshooting.

Step 3. Configure the CNAME record of the domain name

1. After verification with the `hosts` file is passed, you can forward requests to the domain name to the ECDN acceleration platform. You need to complete the CNAME configuration at your DNS service provider of the acceleration domain name. For more information on how to configure a CNAME record, please see CNAME Record Configuration.
2. Check whether the CNAME record of the domain name takes effect: the time it takes for a CNAME record to take effect varies by DNS service provider. You can also run the `ping` or `dig` command to check whether the CNAME record is in effect. If a domain name suffixed with `.dsa.sp.spcdntip.com` or `.dsa.p23.tc.cdntip.com` is returned, the CNAME record has taken effect.

Subsequent Steps

When the distribution is completed, ECDN will allocate a corresponding CNAME address to you, which needs to be configured before the acceleration service taking effect. For detailed directions, please see CNAME Configuration.

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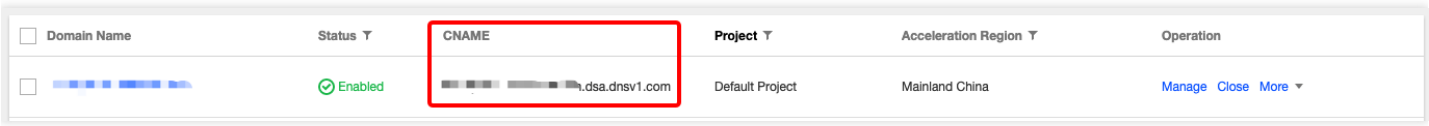
CNAME Configuration

Last updated：2020-04-28 14:50:49

After your domain name is bound to ECDN, the system automatically assigns you a CNAME domain name suffixed with `.dsa.dnsv1.com` which can be viewed on the Domain Name Management page in the CDN Console. It cannot be accessed directly. Instead, you need to complete the CNAME configuration with the domain name service provider first. When the configuration takes effect, you can use the CDN acceleration service.



CNAME verification

The time it takes for a CNAME record to take effect varies by DNS service provider. It is generally within half an hour. You can also run ping on the command line to check whether the CNAME record is in effect. If a domain name suffixed with `.dsa.sp.spcdntip.com` or `.dsa.p23.tc.cdntip.com` can be pinged, the domain name CNAME record has taken effect.

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FAQs about Domain Name Connection

Last updated：2021-12-13 15:18:07

How do I connect a domain name to the ECDN acceleration platform?

You can connect a domain name to the ECDN acceleration platform in the following three steps:

1. Add an acceleration domain name configuration in the console.
2. Set HOST file to verify whether the configuration takes effect.
3. Configure the domain name CNAME resolution. Then, the service will work.

For detailed directions, please see Domain Name Connection.

Should I obtain an ICP filing for services in Mainland China for a domain name connected to ECDN?

Whether the system checks the ICP filing status depends on your selected acceleration region:

- If the acceleration region includes regions in Chinese mainland, according to applicable laws and regulations, an ICP filing for services in China mainland should have been obtained from the MIIT for the domain name before connection.
- If the acceleration region includes regions only outside Chinese mainland (including Hong Kong (China), Macao (China), and Taiwan (China)), your domain name does not need ICP filing.

Does ECDN support connecting to wildcard domain names?

ECDN supports acceleration for wildcard domain names.

What origin-pull methods are supported by ECDN?

Origin-pull Method	Description
Optimal route selection origin-pull	It is the default origin-pull policy.<>/br>The best-performing node is selected for origin-pull based on the platform's detection result.
Weighted origin-pull	Origin-pull requests are proportionally scheduled to origin servers based on their weights.
Primary/secondary origin-pull	When the primary origin server is normal, it will be used for origin-pull. Only when it is exceptional will the secondary origin server be used.

What differences are there between an acceleration port (or access port) and origin-pull port?

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They have the following differences when CDN or ECDN is used:

Port Type	Acceleration Port	Origin-pull Port
Port difference	It is the CDN/ECDN service port, which is also the port for client or user requests to access edge servers.	It is the origin server service port, which is also the port for CDN/ECDN node requests to access origin servers.
Port number	Only ports 80, 443, and 8080 are supported.	1–65535

Note：

- After ECDN is activated, if the client request port is different from the service ports opened on the node, client access requests cannot be accelerated by the node.
- You can specify the origin-pull port on a node on the ECDN domain management page.

What should I do if domain name connection failed in the console?

Common errors during connecting domain names and their solutions are as follows:

Error Type	Error Description and Solution
The corresponding domain name already exists in CDN configuration	You can add a domain name on the ECDN platform only after confirming that it has been deactivated in and deleted from Chinese mainland CDN and outside Chinese mainland CDN.
The acceleration domain name has no ICP filing	If your acceleration region includes regions in Chinese mainland, according to applicable laws and regulations, your domain name must be connected to the domain name ICP filing system of MIIT. If you only need to ensure the access experience of users outside Chinese mainland, you can uncheck acceleration regions in Chinese mainland when adding the domain name. In this case, the domain name does not need an ICP filing for auditing.
The acceleration domain name already exists	If the domain name has been added under the current account, it does not need to be added again and can be used directly. If your domain name has been connected by another account, you can submit a ticket to provide your domain name ownership proof and reclaim the domain name configuration permission.

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Error Type	Error Description and Solution
The domain name is restricted	The domain names restricted from being added in the system include but not limited to internal domain names of Tencent or Tencent Cloud and locked or blocked domain names. You can submit a ticket to apply for the configuration permission for restricted domain names.
The number of domain names exceeds the upper limit	The platform allows to add up to 200 acceleration domain names under one account by default. You can delete configurations of deactivated domain names or apply for increasing the maximum number of domain names.
The domain name format is invalid	The system can accelerate only ASCII domain names. Non-ASCII domain names or domain names that contain invalid characters cannot be added.

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