

Dynamic Site Accelerator

Product Introduction

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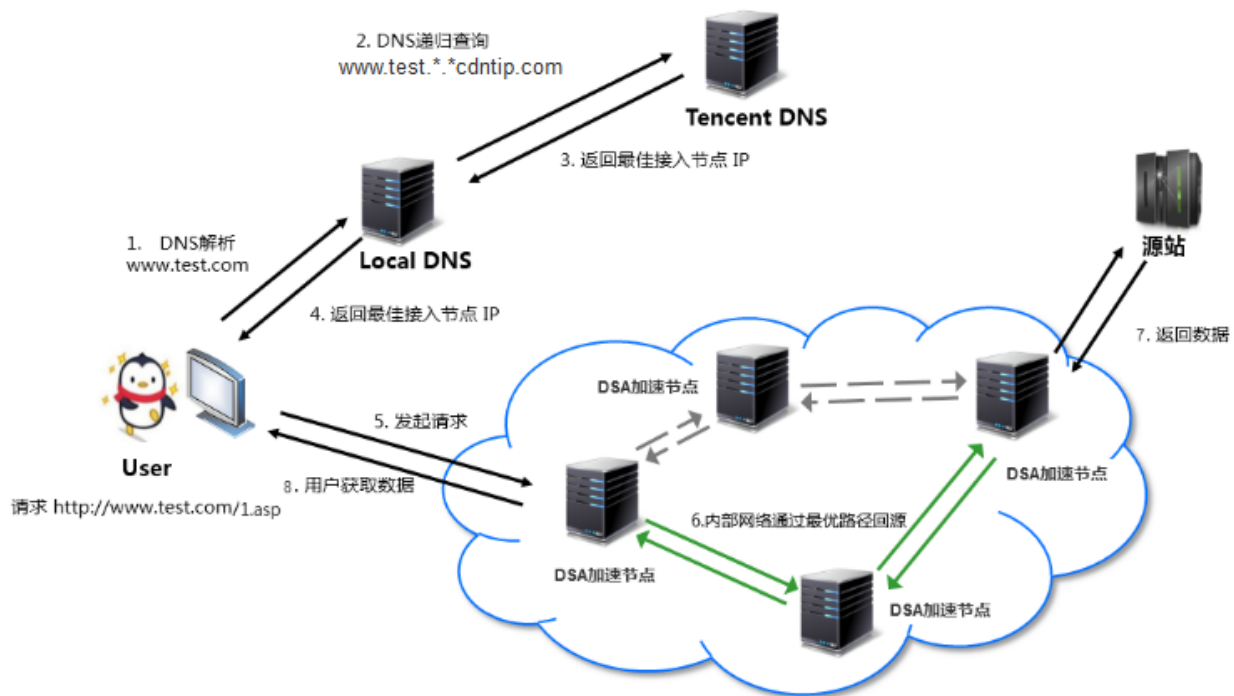
Product Overview

Tencent Cloud Dynamic Site Accelerator (DSA) is used to accelerate the transmission of data from a user to the origin server using the link optimization technology independently developed by Tencent Cloud through high-quality nodes across the globe.

Featuring a simple connection, DSA allows you to enjoy the global DSA acceleration services without the need to change your business structure or perform complicated operations and configuration. For more information about connection, please see [Getting Started](#) and [Activate DSA](#).

How does it work?

For example, if your business origin server's domain name is `www.test.com` and the domain name has been connected to DSA and starts to use acceleration service, when your user makes an HTTP request, the request will be processed as shown in the figure below:



The procedure is as follows:

1. A user wants to make a request to access a dynamic resource on `www.test.com`, e.g. `1.asp`. The user needs to send a domain name resolution request to Local DNS first;
2. When Local DNS resolves `www.test.com`, it will find that CNAME `www.test.*.*cdntip.com` has been configured, so the resolution request will be sent to Tencent DNS (GSLB). GSLB is a scheduling system independently developed by Tencent Cloud and will allocate the best node IP to the request;
3. Local DNS receives the resolved IP returned by Tencent DNS;
4. The user receives the resolved IP;
5. The user sends a request to access `1.asp` to the received IP;
6. The node detects the best routing path from internal network to origin server with the intelligent detection algorithm, and sends the request to the origin server through this path;
7. Upon receiving the request, the origin server sends the dynamic data to the DSA node based on the request;
8. DSA sends the result from the origin server to the user transparently via the optimal internal link.

Advantages

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Mesh-like Interconnection and Global Acceleration

To allow your published content to reach users faster, Tencent Cloud has set up more than 800 DSA nodes across the nation, covering mainstream ISPs such as China Mobile, China Unicom and China Telecom as well as many medium and small-sized ISPs such as China Tietong and Great Wall Broadband. Mesh-like interconnection is implemented between two accelerated nodes, and a huge number of transmission links are available.

Domestic Node Distribution



Overseas Node Distribution



Optimal Connection

Optimal link

Protocol Optimization

Tencent Cloud DSA has independently developed an optimized algorithm for the protocol layer, which makes full use of the bandwidth resources to make the network transmission more stable and improve the network performance.

Secure, Stable and Reliable

Complex public environment, packet lost due to network jitter, and malicious hacker attacks may prevent you from providing services to users normally. To guarantee your business security, Tencent Cloud DSA provides an all-round protection for your business in the following two ways.

Private Protocol

When a user requests for a connection to the accelerated network, you can use a reliable Tencent private protocol for transmission through private network to ensure security.

Redundancy Transmission

Tencent Cloud DSA supports multi-link redundancy transmission, to guarantee the reliability of data transmission, so that users can enjoy a reliable web experience.

One-click Connection and Transparency in Business

You do not need to make adjustments or changes to your business to connect to Tencent Cloud DSA. In addition, you don't have to worry that you cannot access the business statistics and business cost details in a transparent way or achieve a real-time monitoring of business status. Tencent Cloud DSA features a quick and simple connection and offers a variety of management tools, so that the whole DSA can be presented to you as transparent as possible.

Simple Connection

To connect to Tencent Cloud DSA, you only need to provide your domain name. DSA will assign you a CNAME in a fixed format. You need to change the CNAME setting corresponding to the domain name at the domain service provider for this domain name. Once the DNS takes effect, you can immediately start using Tencent Cloud DSA.

Statistics Monitoring

Tencent Cloud DSA provides multi-dimensional data analysis for you to get a full picture about the requests from users at business side. If you need to perform real-time monitoring of such statistics, you can go to Cloud Monitor to set relevant alarms, so that you can get an overall sense of the business status in real time.

Various Management Tools

You can perform domain name management, configuration changes, going online/going offline, deletion and other operations through the DSA console. You can also make queries on the above statistics and charts.

Features

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Acceleration Feature

Global Acceleration

DSA can effectively reduce the delay of international access through the accelerated nodes deployed globally, to ensure the overseas acceleration.

Optimal Link

Every two of the accelerated nodes are connected to provide real-time detection, and calculate the optimal path for transmission using the optimized linkage algorithm developed independently by Tencent Cloud.

Access Security

Access Control

Basic access control, such as referer, User-Agent, IP, is supported, and advanced hotlink protection configurations are provided.

Attack Prevention

DSA provides protection against DDoS and CC attacks, to ensure the availability of customer service.

HTTPS Support

Dynamic acceleration of HTTPS request is supported, without the need to provide certificate information, in order to transparently send the encrypted data in a rapid way and ensure the security.

Business Analysis

Transparency in Business

Multi-dimensional data analysis is provided to analyze the usage frequency, time period and regions of users at business side.