

CLOUD DNS

The Importance of DNS

The Domain Name System (DNS), a critical piece of Internet infrastructure, is a distributed, hierarchical database that maps names to IP addresses. DNS enables users to reach the correct website or e-mail inbox when entering a URL or email address.

Almost every Internet transaction interacts with the DNS system. Without DNS, consumers would not be able to reach businesses' websites. The performance of DNS directly influences consumers' decision to stay on a website or move on to a competitor's site. And, the scalability of the DNS directly affects whether a business is prepared to reach a global audience and handle the resulting increased traffic.

DNS SYSTEM KEY REQUIREMENTS

- Availability - ensuring users can reach websites all the time.
- Reliability - guaranteeing that all Internet domain queries are consistently and correctly resolved.
- Performance – overcoming the network latency experience by geographically distributed users.
- Security – protecting against vulnerability to spoofing and distributed denial of service (DDoS) attacks.
- Scalability - managing increased traffic as an organization's business grows.

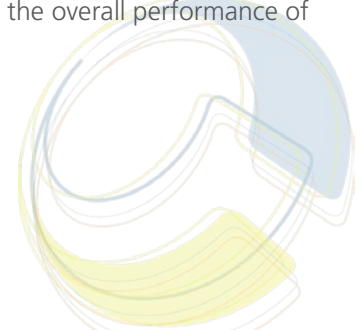
Creating and managing an infrastructure as complex as this, is both technically intimidating and financially challenging.

CDNetworks Cloud DNS

CDNetworks offers a managed cloud-based authoritative DNS service. Cloud DNS (CDNS) is secure, reliable and scalable and offers high performance under any traffic conditions from anywhere in the world. Built on a global network that spans from the US to Australia, the system can easily handle millions of queries per second.

Above all, in an "always-on" Web era, it protects businesses from any kind of "outage costs". By offloading the complex task of DNS infrastructure to CDNetworks, organizations can concentrate on their core business, and get massively scalable, high performing and secure DNS system without large upfront capital costs or technological investment.

Cloud DNS has been purpose-built to address the Web performance needs of enterprises. It is natively integrated with our Web Performance Suite and provides optimal performance when used in conjunction with other products in the suite, such as Content Acceleration. Furthermore, this integration means an additional step of resolving the location of the CDN is eliminated, improving the overall performance of websites.



CLoud DNS

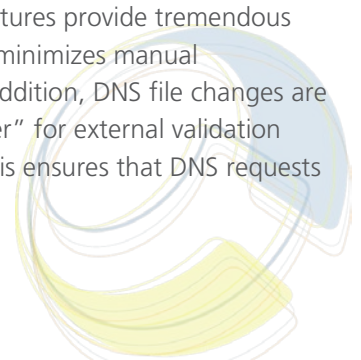
CDNS is built on a globally distributed platform across 20+ strategic locations – from the US to Australia. The high degree of built-in redundancy ensures that the DNS infrastructure is always available to correctly respond to users’ queries. Rather than randomly routing DNS requests to any available location, CDNS utilizes IP Anycast to intelligently route DNS queries to the closest topological location. This ensures consistently high performance for users every single time, irrespective of their location. The distributed platform provides an added layer of security by being resilient to DDoS attacks. CDNetworks Cloud DNS can strategically distribute traffic across servers, ensuring that it can easily scale to meet businesses’ growing traffic demands.



Cloud DNS Global Points of Presence

London	Moscow	Gansu	Seattle	New York
Paris	Perm	JiLin	San Jose	Washington D.C.
Stockholm	Samara	Beijing	Los Angeles	Atlanta
Amsterdam	Rostov	Seoul	Chicago	Miami
Frankfurt	Krasnodar	Shanghai	Dallas	
Milan	Doha	Guangdong		
Madrid	Novosibirsk	Hong Kong		
Palermo	Chennai	Tokyo		
Istanbul	Khabarovsk	Taipei		
	Sydney	Singapore		

CDNetworks Cloud DNS provides unrivaled management and reporting ability through a Web-based portal. The robust near real-time reporting features provide tremendous visibility into DNS traffic and customers. The CDNS portal minimizes manual configuration errors which can lead to costly outages. In addition, DNS file changes are internally verified tested and promoted to a “staging server” for external validation before being published to production in near real time. This ensures that DNS requests are always resolved with the latest data.



**CDNetworks
Global Offices**

US

441 W. Trimble Road
San Jose, CA 95131
+1 408 228 3700

EMEA

16 St Martin's Le Grand
London, EC1A 4EN
+44 20 7096 3982

6 Rue de L'Isly
Paris, 75008
+33 1 75 43 81 92

Korea

Handong Bldg. 2F, 828-7
Yeoksam-Dong, Gangnam-Gu
135935 Seoul
+82 2 3441 0400

Japan

Nittochi Nishi-shinjuku Building
8th Floor, 6-10-1, Nishishinjuku
Shinjuku-ku, Tokyo 160-0023
+81 3 5909 3369

China

Room No.A-1502
Keijidalou, 900 Yi shan Road Shanghai
+86 10 8441 7749

info@cdnetworks.com

www.cdnetworks.com

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Features and specifications
subject to change without notice.



CLLOUD DNS

CDNetworks Cloud DNS supports zone transfer using the standard zone transfer protocol. Zones can be securely transferred from businesses' primary name server to Cloud DNS name servers. The transfer is performed by zone transfer server processes that run on machines which are physically separate from the name servers and are designed not to accept requests from any other sources, thereby providing an unparalleled level of security. Enabling zone transfer allows administrators to maintain existing zone administration process while leveraging the Cloud DNS platform for availability, performance, security and scalability.

CDNetworks Cloud DNS ensures that your DNS is secure and is always available to quickly and correctly respond to your users at any time and from any place in the world.

Why CDNetworks Cloud DNS?

- **Availability:** Ensure 100% accessibility to your website backed by a robust network capable of scaling to handle virtually unlimited growth in user traffic.
- **Performance:** Increase customer stickiness and therefore revenue by leveraging a best in class solution utilizing IP Anycast, instant DNS change propagation, and seamless CDN integration.
- **Security:** Protect against DDoS attacks and costly administration errors with a distributed architecture, zone transfers, and a secure testing environment.
- **Simplicity:** Simplify your DNS administration with a web based portal, secure zone transfer and near-real time reporting giving you unparalleled insights into your DNS traffic, without any increase in administrative overhead or CapEx investment.

To find out more about CDNetworks Cloud DNS solution, visit <http://www.cdnetworks.com/solutions/cloud-dns> or contact us at info@cdnetworks.com.

