

UltraDNS²

The Only Secondary Network You Need

A company's on-line presence is critical in defining that customer's brand. Whether it is your website, e-commerce site, service portal, gaming server, SaaS application, or any other internet facing services, your business is defined by the experience that you give your users.

To compete, your sites need to be available at all times, fast to respond, and secure with your customer's data. DNS resolution is one of the essential components to ensure a flawless internet experience for users as it is the means by which customers can find your on-line services. Because of this reliance, it is important for customers to include authoritative DNS resolution as part of their business continuity/disaster recovery planning and consider implementing redundant networks for this critical function.

Over the past few years alone, a number of the well-known DNS providers have experienced extended outages due to a variety of different issues including software malfunctions, routing issues, and operational errors. The most common source of issues has been distributed denial of service (DDoS) attacks. On October 21, 2016, a well-known managed domain name system (DNS) provider was rocked by a massive, distributed denial-of-service (DDoS) attack. The attack not only suspended the availability and services of the DNS provider, but the collateral damage was also spread to several well-known brands whose websites and applications also suffered intermittent outages. Today, cybersecurity experts are now preparing not for an "if" but "when" an attack happens. They want to ensure their network is protected to detect an attack and to be able to mitigate it quickly without interruption to their services and, of course, their customers.

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Redundancy is Key

The single most important thing that organizations can do to protect their authoritative DNS service is to implement redundant DNS solutions. In the wake of the Mirai botnet attacks, industry analysts (e.g. Gartner) recommend that organizations have a secondary DNS network for better security, redundancy, and availability. It's not about having a Plan B if your Plan A fails. It's about having a smarter Plan A that provides redundancy of your DNS traffic between two trusted networks. This strategy protects your brand from a single, take-down DDoS attack, operational mishaps, and isolates you from impact from software defects. DigiCert's UltraDNS² was developed with this in mind.

Introducing UltraDNS²

DigiCert's UltraDNS² combines the award winning UltraDNS resolution network with a second global DNS anycast network to provide exponential value. UltraDNS² is hosted, and the network operated, by a leading anycast cloud provider with different network operations from the underlying systems, provisioning, automation, routing policies, and transit providers than UltraDNS. This offers you the redundancy of having a distinct second network provider with all the advanced features and functionality of UltraDNS. With UltraDNS², you gain a single pane of glass management that allows you to easily manage your DNS records across both networks. Having one provider for both your networks provides a lower total cost of ownership, providing one point of contact for managing your DNS network. UltraDNS² puts you in the best position to ensure your online presence is uninterrupted.

Benefits

- Advanced features across both networks
- Exclusive offering to a select group of premier customers
- Achieve business continuity and disaster recovery goals
- Single pane of glass management of both networks
- Lower total cost of ownership
- Dedicated 24/7 x 365 support

Features

Distinct anycast network and routing policies

Additional 18 nodes globally

Diverse network operations

Isolated edge server operations

DDoS mitigation by UltraDDoS Protect

Option to have isolated nameservers on the UltraDNS² network

UltraDNS and UltraDNS² Platform Comparison

Area of Operation	Similarities	Differences	Benefits
Network and transit	Global footprint, Anycast operation, and multiple transit options per location	Different hosting partners, physical locations, transit providers	Higher geographic and transit redundancy increases resilience and lowers risks associated with network events
Network operations	Dedicated and experienced network teams	Independent teams for UltraDNS ²	Additional expertise, increased operational resilience
Nameservers and resolvers	Proven UltraDNS code base, multiple nameservers per customer, vanity nameserver support, IPv4 and IPV6 resolution	UltraDNS ² provides the option of isolated nameservers per customer	Eliminates “noisy neighbor” issues and significantly reduces risk of collateral damage due to attacks on other customers
Zone management, billing, and reporting	Single pane of glass across both networks	Different network paths for zone propagation; common management UI and reporting	Simplicity lowers management burden; eliminates the need/risk of developing a workload management tool
Feature/functionality	All features are available across both networks	N/A	Reduces complexity and creates a better customer experience

UltraDNS and UltraDNS² Coverage Map



	UltraDNS Nodes	UltraDNS ² Nodes
Asia	Beijing, Mumbai, Hong Kong, Shanghai, Singapore, Taipei, Tokyo, Fujairah	Chennai, Singapore, Hong Kong, Tokyo
Europe	London, Amsterdam, Paris, Frankfurt, Dublin, Madrid, Stockholm	London, Amsterdam, Paris, Frankfurt
North America	Dallas, Chicago, Ashburn, Miami, Los Angeles, Phoenix, San Jose, Seattle, Atlanta, New York, Toronto	Seattle, Sunnyvale, Dallas, Ashburn, Miami
South America	Sao Paulo, Colombia	Santiago, Sao Paulo
Middle East		Dubai
Africa	Johannesburg	Johannesburg
Oceania	Sydney	Sydney

Why DigiCert?

Our mission-critical portfolio of best-in-class cloud security solutions is built on a 25-year legacy of success, driven by a relentless dedication to protecting our customers' most important assets.

Security

Day in and day out, our solutions have proven themselves against some of the largest and most complex threats and attacks on record.

Availability and Reliability

Our global platforms are highly redundant and significantly overprovisioned to ensure reliable resolution of queries and protection against unforeseen events.

Ability to Scale

Our global infrastructure is provisioned for 10x volume over current steady-state levels, with a highly adaptable edge node design; our solutions scale effortlessly.

Experience

Our security experts draw on more than 20 years of corporate experience, and are committed to staying ahead of the curve.

Ready to fortify your defenses?

We're here to help you build a resilient protection strategy tailored to your organizational needs.

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Securing the online experience.

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