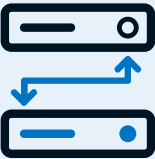


Overview: The new standard for digital trust

True resilience is required to maintain a seamless online presence. As the “heartbeat of the internet,” DNS is the most fundamental layer of your digital ecosystem.

DigiCert UltraDNS is a globally distributed, authoritative DNS service designed to provide 100% availability, low-latency performance, and built-in protection against the industry’s most sophisticated threats.



In a hybrid-cloud world, redundancy is not enough.

The resilience gap: Why DNS is your strategic dependency

Recent industry disruptions have proven that even when cloud infrastructure is healthy, a failure in DNS can bring entire global operations to a halt.



The cost of downtime:

45% of organizations reported service downtime in the last year due to certificate or DNS-related incidents.



Financial impact:

18.5% of enterprises lost over \$250,000 due to preventable outages.



Operational friction:

Siloed DNS and PKI teams often face manual ticketing delays, which can turn seconds into hours when critical certificates need to be issued.

Core capabilities for continuous uptime

1. Global Anycast Network & 100% uptime SLA

UltraDNS is built on a massive global Anycast network featuring 50+ dedicated points of presence and 3,000+ peers. This infrastructure ensures near-zero latency and is backed by industry-leading SLAs that guarantee 100% resolution.

2. Proactive monitoring with SiteBacker

SiteBacker provides a cost-effective monitoring and failover solution that requires no additional dedicated hardware or software.



Global probing

Monitoring agents at multiple locations continually perform standard protocol or transaction-based testing against pre-selected servers.



Broad protocol support

Natively monitors any service on the public internet, including ICMP, FTP, HTTP/HTTPS, SMTP, TCP, and custom proprietary ports.



Verification integrity

Each server is monitored by multiple agents to ensure testing integrity before concluding a failure has occurred.

3. Integrated security & DDoS mitigation

UltraDNS provides built-in layered protection to safeguard your infrastructure:



Nameserver segmentation

Prevents malicious activity from affecting your entire environment.



One-click DNSSEC

Protects against cache poisoning and DNS hijacking using elliptic curve cryptography.



DDoS protection

Built-in DDoS and firewall protections safeguard critical web assets.

Use case: Active-active failover & automated recovery

Ensure 100% uptime for mission-critical web operations by combining redundant network infrastructure with intelligent server health checks.

High-availability business continuity

Active-active redundancy

UltraDNS² offers an active, fully redundant secondary network for failover to ensure 100% uptime.

Automated DNS modification

Upon detecting a failure, SiteBacker automatically modifies the DNS response record to redirect traffic to designated disaster recovery servers.

Real-time alerts

Automatically sends real-time email notifications to predetermined contacts the moment a server failure is confirmed.

Seamless restoration

Automatically recognizes when a server is restored to service and restores original DNS records without manual intervention.

Rapid propagation and control

Fast updates

DNS record changes propagate across the entire UltraDNS and UltraDNS² infrastructure in less than 10 seconds.

Flexible management

Manage failover manually for emergency situations or use scheduled failover for planned maintenance via a web-based portal or REST API.

Harmonizing PKI and DNS: The unified trust fabric

The integration of UltraDNS with DigiCert® ONE eliminates the traditional silos between security and network teams.

Automated DCV

DigiCert CertCentral automatically pushes and removes the required TXT records for DNS-01 validation, enabling “zero-touch” certificate provisioning.

Future-ready for 47-day lifespans

As certificate lifespans shrink, this automation ensures your domains are always “ready to fire” for high-frequency renewals.

Unified visibility

Manage DNS records and certificate lifecycles from a “single pane of glass.”

Business outcomes

96%

fewer outages by automating infrastructure and securing web assets

\$7.9M

in operational savings through reduced manual effort and streamlined workflows

312%

return on investment based on the Total Economic Impact™ study by Forrester Consulting

“UltraDNS ticked all of the right boxes to be the primary DNS Provider.”

– **Andrew Winkless, Infrastructure Manager,**
Yorkshire Building Society

“With UltraDNS we feel future-proof, and I would not hesitate to recommend it as a DNS service.”

– **Javier Mayoral, Systems Administrator**
at Cochrane

About DigiCert

DigiCert is a global leader in digital trust, securing people, data, and devices with AI-powered solutions built to stop threats today and prepare for a quantum-safe future.