# NS1 Managed DNS

Enterprises are delivering sophisticated applications to more widely distributed users than ever before. To support this effort, network architects and traffic management teams must ensure that every user has the fastest path to an optimal application experience.

Traditional DNS platforms do very little to improve user experience or accelerate application delivery. Static geolocation approximations and fixed round robin load balancing are not flexible enough to support modern application architectures and millions of users.

NS1 Managed DNS combines a resilient network, near instant DNS propagation, and intelligent traffic steering to give enterprises modern controls over user experience of internet-facing applications.

By modernizing DNS services, NS1 helps enterprises to realize dramatic gains in user experience, IT efficiency and application reliability.
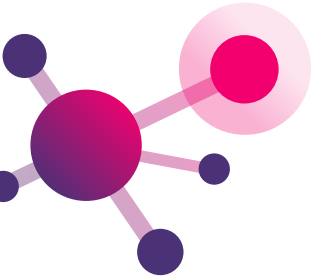
Always Available

A global, over-built, DDoS resilient Anycast network with a reliability history backed by 100% uptime SLA.

Optimal User Experience

Low latency DNS that intelligently routes around disruptions and sends every user to the fastest datacenter or CDN.

Data-Driven Efficiency

Leverage your telemetry to build policies that meet your unique business use cases and the go-to-market needs of specific applications.

Application Agility

Cloud-native, API-first architecture integrates with DevOps tools to increase development and deployment velocity.

Proven and Trusted by Global Firms

Dropbox   LinkedIn   The Guardian   B/R BLEACHER REPORT

NS1.

Managed DNS Benefits

Ensure availability of your internet services with highly available, DDoS resilient, low latency, global DNS infrastructure.

Optimize user experience and improve availability with intelligent traffic management:

- Steer every user to the location that will deliver the best possible online experience.

- Route around infrastructure or capacity problems to increase application availability

Improve management efficiency and flexibility with the ability to create and maintain policies easily with Filter Chains.

Empower multiple teams to manage and automate DNS their way with API-first architecture that supports both a modern GUI and programmable workflows.

Integrate with infrastructure-as-code tools used by DevOps teams to ensure reliable, secure deployment changes without the delays and "friction" of traditional processes.

Protect against DNS hijacking, cache poisoning and man-in-the-middle attacks with DNSSEC support.

Optional Additions

Managed DNS for China overcomes performance challenges caused by the Great Firewall with nameservers deployed in key Chinese markets.

Dedicated DNS is a complete, turnkey solution to the challenge of redundant DNS.

Pulsar automates intelligent traffic routing with advanced user monitoring, performance telemetry, and easily configurable policies to meet business KPIs.

Domain Security Suite is a turnkey package of DNS services and capabilities designed to keep your business and your customers safe from DNS exploitation.

Features

Global Anycast Network
Primary and Secondary DNS built with a fully redundant architecture at 26 locations to meet a 100% uptime SLA.

Intelligent Traffic Management
Routing ensures that users get to servers, datacenters, CDNs, or cloud instances that deliver optimal performance.

Filter Chain
Code-free creation of sophisticated traffic management policies such as load balancing, load shedding, failover, latency-routing, and geographic routing.

Monitoring
Built-in probes to test infrastructure health using PING, TCP, DNS, and HTTP(S).

Rapid DNS Propagation
DNS updates are pushed to NS1's edge nodes in seconds.

Data Driven DNS
Infrastructure metrics (system health, network latency, system load, geography, ASN, bandwidth commits, etc.) leveraged to route traffic intelligently..

EDNS client subnet
Geolocation routing based on end user IP address enables more precise and accurate control over user routing.

DDoS Defense
Combination of global locations, massively provisioned infrastructure, autoscaling, sophisticated detection, filtering capabilities, and operational readiness drills to protect against attack.

DNSSEC
The integrity of DNS responses is protected by DNSSEC signing without compromising traffic management or DNS redundancy.

Query Reporting
See real time and historical query usage for each zone.

Secure Access
Single Sign On or Two Factor Authentication validates users, Role Based Access Controls manage access, and actions are recorded with audit logs.

REST APIs, SDKs, and Integrations
Automate tasks and orchestrate using Ansible, Terraform, Mesos, Consul, Go, PHP, Python, etc.

NS1-Specific Record Types
Alias Records simulate a CNAME record at the zone apex. Linked Records reuse advanced configurations from existing NS1 records. URL Forwarding redirects traffic to customer-designated site based on the full incoming URL.

Support & Maintenance
24x7x365 support. Migration, training, and professional services available.

NS1.