Case Study

Algolia

Industry

▸ Software

Solutions

Managed DNS

Filter Chain

Algolia Drives Application Performance with NS1's Intelligent DNS and Traffic Management.

Challenge

Building a high performance, distributed infrastructure to accommodate millions of geographically distributed users is no easy task - especially when you are a young startup. Yet that is exactly what Algolia's DevOps team needed to accomplish in order to gain a competitive edge and help drive the company's meteoric growth. Getting users to the application as fast as possible is the critical first step.

Solutions

After a thorough evaluation against the competition and do- it-yourself options, Algolia decided that NS1's intelligent DNS & traffic management platform delivered the speed, reliability, and control they needed. In addition, Algolia is able to save time and lower operational costs by using the configurability and automation provided by NS1's intelligent DNS & traffic management platform.

Results

As part of the deployment process, Algolia integrated their account-specific logic into the NS1 platform using the solution's streamlined API-first approach. Algolia then used NS1's edns-client-subnet support, which leverages user metadata that Google Public DNS, OpenDNS, and other resolvers provide, to significantly improve georouting.

Next, Algolia leveraged NS1's patent-pending filter chain to direct users to the optimal data center based on real-time network, user and infrastructure data.

In addition, Algolia implemented rules for disaster recovery, failover and load shedding to protect against unexpected network and infrastructure events as well as planned maintenance.

algolia

NS1's anycasted global network substantially improved Algolia's network performance, resulting in a better, more responsive user experience.

NS1's scalability, performance and configuration capabilities allow Algolia to provide their customers with a fully scalable application that serves billions of queries per month from 13 worldwide regions, all with an average server response time of under 7 milliseconds.

By using traffic filters to protect their network from outages and hardware failure, Algolia is able to maintain consistent performance for its users across the globe. The same filters are used to easily remove data centers from rotation in order to perform system maintenance with zero customer impact.

NS1 is a critical component of our application architecture. We've seen amazing performance from the platform, enabling us to deliver a flawless experience to our customers' end users.

- Julien Lemoine
  CTO, Algolia

About Algolia

Algolia is a leading Search as a Service provider and aims to become the search layer of the Internet. Founded in 2012, the company already lays claim to some of the most prominent names in the tech, media and e-commerce industries including Periscope, Vevo, CrunchBase, HackerNews and DigitalOcean among others. Instead of building and maintaining search functionality yourself, let the experts at Algolia manage search for you. Just plug in Algolia's proprietary technology within a website or app and instantly enable a smarter, faster search experience for end users. Algolia's solution off ers out-of-the-box support for every language is typo-tolerant, provides results in milliseconds and allows easy ranking configuration for unique data sets.

About NS1

NS1 is the leader in next generation DNS solutions that orchestrate the delivery of the world's most critical internet and enterprise applications. Only NS1's purpose-built platform, which is built on a modern API-fi rst architecture, transforms DNS into an intelligent, efficient and automated system, driving dramatic gains in reliability, resiliency, security and performance of application delivery infrastructure. Many of the highest-trafficked sites and largest global enterprises trust NS1, including Salesforce, LinkedIn, Dropbox, Nielsen, Squarespace, Pandora and The Guardian.

NS1.

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