

DATASHEET

NS1. + NGINX

NS1 allows you to push rich telemetry from your NGINX appliances all the way to the edge of our network, allowing NS1 to make extremely intelligent routing decisions by pairing our monitoring and RUM with metrics coming directly from your ADCs.

Modern enterprises are deploying increasingly complex application stacks distributed across multiple data centers to improve resiliency and application performance. Global server load balancing (GSLB) is the intelligent distribution of traffic across multiple, geographically-distributed points of presence (PoPs). In the event of an abnormally high or localized traffic spike, some end users are transitioned to better-performing PoPs to ensure high-availability and application delivery performance.

The NS1 + NGINX integration makes it easy to maximize infrastructural efficiency and automate intelligent routing decisions. NGINX Plus combines a load balancer, content cache, web server, security controls, as well as rich application monitoring and management into one easy-to-use software package. In a data center/PoP, an NGINX Plus cluster manages traffic routing across all servers in the same data center. NS1's DNS traffic management solutions enable GSLB across multiple, geographically-distributed PoPs.

The integration combines two powerful solutions to give you granular visibility into the health of your infrastructure and greater control over your traffic management policies. Robust and intuitive API configuration tools simplify the implementation process—making it easy to scale complex configurations as your network evolves.

HOW IT WORKS

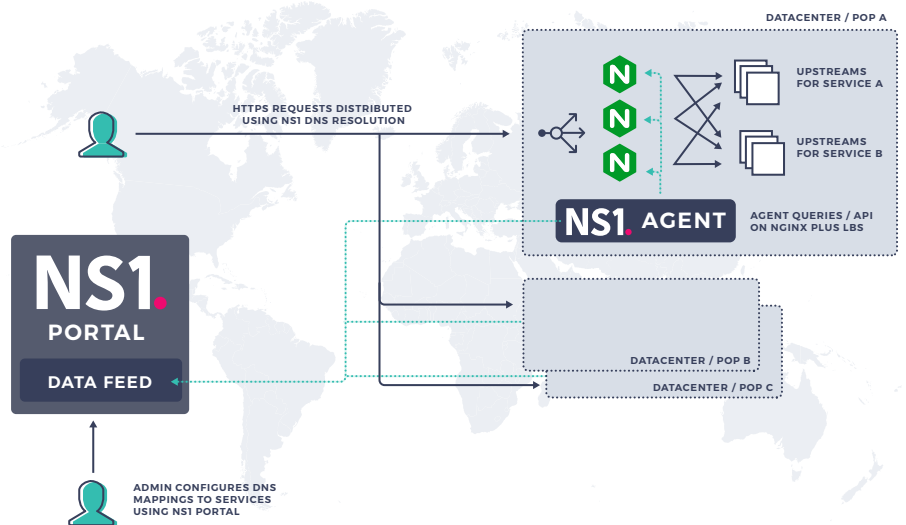
An NS1 agent runs alongside each instance of an NGINX Plus cluster across multiple data centers/PoPs in your infrastructure. Periodically, the agent performs health checks to calculate the number of active connections, and then pushes an update back to NS1 along with availability (up/down) and other key metrics.

NS1 ingests this information via a data feed, and then—based on your NS1 zone, record, and Filter Chain™ configuration—routes traffic to the next-best-available PoP in your network.

The agent supports the following capabilities:

- ▶ **Remote health checks** to avoid sending clients to an unavailable PoP
- ▶ **Local capacity checks** to avoid sending clients to a PoP with insufficient server capacity
- ▶ **Central capacity balancing** to distribute clients based on current load at each PoP and transition traffic away from overloaded serverspreem branch offices and HQ

The solution functions in tandem with other NS1 capabilities, such as such as geographic-based routing to direct each client to its closest PoP.



REQUIREMENTS

- ▶ A registered domain name
- ▶ An NS1 account via the <http://my.nsone.net>
- ▶ Three or more deployed instances of NGINX Plus (Note: Each instance must have NGINX Plus API configured.)

ABOUT NS1

NS1 optimizes delivery of the world's most critical internet and enterprise applications. Only NS1's platform is built on a modern API-first architecture that acts on real-time data and grows more powerful in complex environments, transforming DNS, DHCP, and IP Address Management (IPAM) into an intelligent, efficient, and automated system. NS1's technology drives dramatic gains in IT efficiency and application performance, reliability, and security for the largest global enterprises, including Salesforce, LinkedIn, Dropbox, Nielsen, Pitney Bowes, Squarespace, Pandora and The Guardian.