

# NS1 and VMWare NSX Advanced Load Balancer (Avi Networks)



NS1 and VMWare NSX Advanced Load Balancer work together seamlessly, making it easy to enable high-velocity global load balancing and performance-based traffic management across your multi-cloud infrastructure.

## NS1

-  **Integrated global load balancing**
-  **Metrics-driven performance steering**
-  **Multi-cloud cost + perf optimization**
-  **DNS performance & security**

## VMWare NSX ALB

-  **Multi-cloud LB consistency**
-  **Full lifecycle automation**
-  **Pervasive analytics**
-  **Future-proof**

The integration allows you to push rich metrics from your virtual services (NSX ALB) to NS1 where the data is combined with telemetry, like RUM, in order to optimize end user experience, uptime, and security. Supported metrics include up/down status as well as custom metrics, including load, active connections, and requests per second. Additionally, you can configure more advanced L4-7 metrics like error counts and Client RTT. These metrics are pushed to the edge of NS1's Managed DNS platforms in real-time where they are used to inform traffic routing decisions for each and every query.

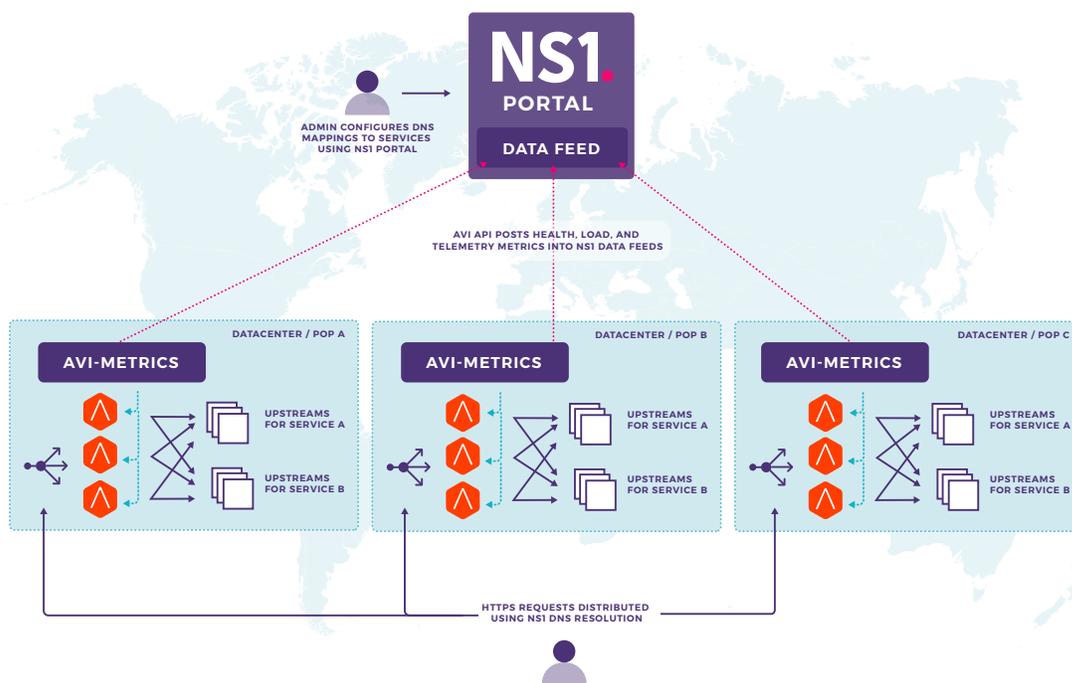
The integration combines two powerful solutions to give you granular visibility into the health of your infrastructure and greater control over your traffic management policies. Robust and intuitive API configuration tools simplify the implementation process, making it easy to scale complex configurations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

# How it works

## Customers utilizing the Avi Metrics Query API via the avi-metrics container can select NS1 as an endpoint.

Periodically, the API performs a health check against the virtual service to determine up/down status, number of active connections, and number of requests per second, and pushes this information back to NS1 as a data feed.

User-defined low and high watermarks indicate when to begin “shedding” traffic away from an individual PoP. Based on your NS1 zone, record, and Filter Chain™ configuration, NS1 leverages other native capabilities such as geographic-based routing to route users to the next-best-available PoP in your network. The gradual re-distribution of traffic to more available PoPs prevents outages of any single data center due to overloading. Once the high watermark is reached, no traffic will be directed to that PoP until it reports normal workload metrics.



## 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.

