

# NS1 + Consul

Enterprises are modernizing their monolithic applications by building modern distributed applications using microservices. With the proliferation of microservice that need to communicate across a complex environment, how do you ensure fast and reliable discovery of these services? How do you route traffic to the right service? How do you ensure availability and reliability?

This is where NS1 and Consul come in! NS1 and Consul work together seamlessly, making it easy to unify service discovery and intelligently steer service traffic across increasingly complex and dynamic multi-cloud environments.



## NS1



**Automates discovery for dynamic microservices**



**Minimizes DNS update and propagation delays**



**Simplifies intelligent load balancing and traffic steering**

## Consul



**Registers active nodes and services**



**Maintains a list of endpoints (IPs and ports) for each registered service**



**Performs health checks on the local services**



# How it works

## Discover

Consul clients notify the Consul server of newly deployed or decommissioned service instances. NS1's integration "listens" for these service registry changes on the Consul server and updates our DNS records.

## Unify

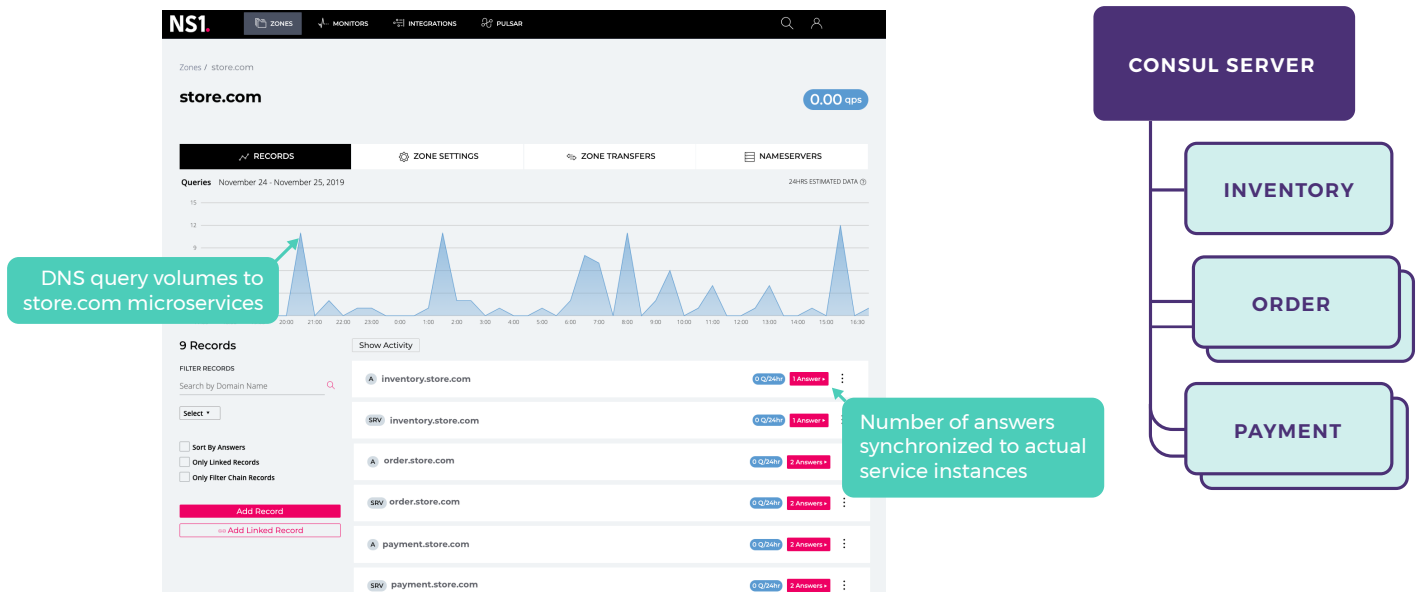
NS1 gives network teams a centralized view into where dynamic Consul microservices live on your network. NS1 also consolidates information about active, dynamic microservices from various other service discovery systems. This creates a single source of truth that any team can query, regardless of service registry tooling being used by different development teams.

## Operate

NS1 fast propagation of DNS updates supports autoscaling by making new service instances immediately visible and available without manual intervention. Similarly, decommissioned services are automatically removed from DNS routing answers which eliminates service availability issues. NS1 also provides DNS redundancy to ensure applications that depend on rapid DNS responses will always function correctly.

## Optimize

NS1 empowers application and operations teams to apply advanced traffic steering capabilities. NS1's Filter Chain is a visual, drag and drop policy engine that makes it easy and simple to create traffic management policies such as always directing traffic from a specific resource or user to the same service instance to assure consistent experience.



## 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.

