

NS1 Integration with Catalyst 9300 and Catalyst 9400 Enterprise Edge Switches



Making Edge More Intelligent

Digital transformation and modernization of the networks are resulting in the so-called connected Edge or Extended Edge. Shift to Cloud is changing the way Enterprises manage their networking infrastructure including the foundational network services. Enterprises are rearchitecting their networks by moving the workloads to multi and hybrid -clouds. Edge has never been more important than now given that both employees and customers are accessing networks from anywhere and expecting the same level of performance as on a LAN. For Enterprises, the questions really comes down as to how to meet the escalating requirements of supporting their increasingly distributed and borderless operations.

NS1 DDI solution is supported by Cisco's Catalyst 9000 Series of switches i.e. Catalyst 9300 and Catalyst 9400. NS1's integration with Cat9K allows customers to deploy edge services DNS, DHCP and dist at regional and branch and remote offices. These foundational network services can be deployed atop existing network gear in a regional branch office to eliminate the need to manage additional gear. Leveraging existing equipment reduces costs and potential security risks.

Benefits



- ✓ Scalability, redundancy, and performance optimization across distributed edge environments



- ✓ Reduces cost and complexity consolidating services at the edge on the same network infrastructure



- ✓ Optimize and deliver applications securely and reliably at the distributed offices and users



- ✓ Empowering DevOps, SecOps and NetOps teams by leveraging automation at the Edge for CI/CD and roll out new features quickly



- ✓ Built for the Cloud era by connecting applications with users and devices



DNS Edge Service running at Edge hosted by Catalyst 9300 and 9400 switches

When a single or stacked set of switches is available in each branch, DNS edge containers can be deployed locally on the 9300 for local DNS resolution. DHCP containers can be deployed in a separate facility on dedicated hardware and service the branch(es) for DHCP resolution, providing IP's for devices accessing the network.



DHCP Edge Service running at Edge hosted by Catalyst 9300 and 9400 switches

When a single or stacked set of switches is available in each branch, DHCP edge containers can be deployed locally on the 9300 for local DHCP resolution. DNS containers can be deployed in a separate facility on dedicated hardware and service the branch(es) for authoritative and recursive resolution.



DNS and DHCP Edge Services running on two separate stacked switches in the same branch

With access to multiple unstacked switches in a discrete location, bringing DNS and DHCP containers to local infrastructure is easy. Each switch can host a single edge service to enable local DNS and DHCP resolution for performance and local survivability. This mimics a typical edge deployment on dedicated hardware.

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-first 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.