Netskope Secured and Optimized Multi-cloud Networking

Borderless SD-WAN connects enterprise resources scattered across multiple cloud environments, including AWS, Azure, and GCP, into a unified network fabric. Leveraging advanced routing and native integration with multi-cloud environments, it seamlessly establishes secure, optimized connections. Moreover, it enables effortless integration with Netskope Intelligent SSE for cloud workloads through a single click.

Quick Glance

- Connect Apps within and across clouds by leveraging advanced routing and native integration within cloud providers.

- Automate and manage multi-cloud networking operations from a single console.

- Unmatched cloud insights accelerate mean time to resolution (MTTR) to and across multi-cloud environments.

- Enable secure, optimized multi-cloud networking and full QoE across your multi-cloud environment.

- Connect your public clouds with the simplicity of a single click to Netskope SSE, the world's largest private security cloud network.

- ML-based anomaly detection collects cloud SLE data and predicts SLA violations.

The Challenge

Using multiple cloud providers can help organizations avoid vendor lock-in, leverage best-of-breed technologies, and optimize costs. However, there are some challenges to address when choosing a multi-cloud networking solution:

- **Complexity:** Cloud providers often have different network configurations, security protocols, and management consoles, each requiring specialized knowledge and expertise.

- **Limited visibility:** Different monitoring tools and metrics can complicate visibility and aggregation of useful data into meaningful insights.

- **Security and compliance gaps:** Security controls, policies, and capabilities often differ between providers. Ensuring consistent and comprehensive security, access controls, and data protection may require additional tools.

- **Latency and performance:** High latency can impact application performance and end-user experience. Minimizing latency can be challenging, especially between geographically dispersed clouds.

"Netskope Borderless SD-WAN stands apart from everything in the market. Whether it's addressing multi-cloud scenarios, connecting equipment in the field, or providing a simple 'plug-and-play' solution for the hybrid workforce."
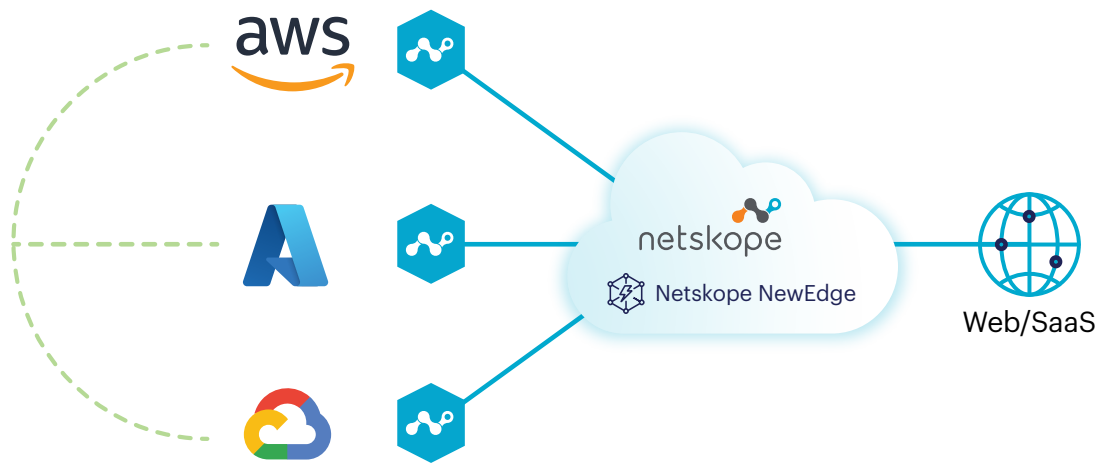
— **Mahesh Gopalakrishnan, VP IT, PDC Energy**

Figure 1: Simplified Multi-cloud Networking

The Solution

Netskope provides multi-cloud networking, performance optimization and comprehensive security at scale. Netskope advantages include:

- Gain full, intelligent visibility into all traffic and events to accelerate MTTR and avoid costly downtime.

- Run efficient operations with a single console supporting fully automated, standardized deployments across all clouds.

- Protect business critical applications with Netskope intelligent SSE powered by high-performance and low latency NewEdge network.

- Connect any cloud easily with cloud-native application constructs and full SD-WAN link monitoring, bandwidth monitoring and AppX capabilities.

- Consistent traffic flow with policy-based, context-aware steering from user to cloud and cloud to cloud.

Netskope Multi-cloud Networking Architectural Components

Netskope multi-cloud networking consists of cloud-native networking constructs that interface with major cloud provider networking services and communicate efficiently and securely with each other via Netskope Borderless SD-WAN. Netskope Borderless SD-WAN

light-weight software enables one-click integration with Netskope Intelligent SSE, powered by Netskope NewEdge, the world's largest, highest-performing, low-latency driven security private cloud. Together, these solutions create a multi-cloud networking platform that seamlessly converges networking and security. Netskope Intelligent SSE provides integrated security services including ZTNA, SWG, CASB, SSPM/CSPM, IoT security, DLP, Threat Protection, FWaaS, and RBI from one platform with one policy framework and one console.

Converged networking connects and protects multi-cloud environments

- **Automated cloud operations:** Unified visibility and reduced maintenance with a single console for managing your multi-cloud environment. Leverage cloud-native application networking constructs.

- **Connect multiple clouds:** Netskope Borderless SD-WAN can be deployed across major public cloud providers including AWS, Microsoft Azure, and Google Cloud within customers' infrastructure.

- **Optimize inter-regional connectivity:** Integrate with the provider's cloud backbone to optimally connect inter-regional resources.

- **Consistent cloud traffic flow:** Policy-based, context-aware steering from user to cloud and cloud to cloud.

ML-based insights for multi-cloud networking

- **Enterprise-wide cloud AppX monitoring:** Provides a comprehensive view of cloud-to-cloud connectivity and quality across all regions—now and in the past. Assists IT to proactively spot problem areas and easily isolate any network issues.

- **Best-in-class cloud analytics:** Real-time link monitoring including loss, latency, jitter, bandwidth utilization, and Application Experience (AppX) Score from every user and cloud to every destination. And traffic routing/path visibility showing how and in which path the traffic is routed.

- **ML-based anomaly detection:** Autonomous monitoring to collect cloud SLE data, detect anomalies, and predict SLA violations. Resolve policy violations with network-wide flow analytics.

Netskope is built as a cloud-native platform, designed to operate in dynamic and distributed environments. This enables efficient network management, data protection, and policy enforcement across multiple clouds.

Gain full visibility into your enterprise with Application Experience (AppX) score from every user and site to every destination.

Secure optimized multi-cloud networking

- **One-click security with Netskope SSE:** Connect your public cloud to access the world's largest private security cloud network with a single click. Never worry about network and security performance or scalability issues again.

- **Blazing-fast, converged security:** Harness the power of Netskope Intelligent SSE along with services like NG SWG, CASB, FWaaS, ZTNA, and much more available everywhere across the globe with the highest regional coverage.

- **Optimized cloud on-ramp:** Optimized access to and across clouds with full context-aware Quality of Experience (QoE).

BENEFIT	STANDARD
Unified visibility and control	Netskope provides a centralized platform for monitoring and managing multi-cloud networks. It offers comprehensive visibility into cloud usage, network traffic, and security risks and events.
Automated cloud operations	Unmatched multi-cloud insights delivered with a single console to accelerate mean time to resolution to and across multi-cloud environments.
Fast resolution of networking issues	Cloud monitoring provides a comprehensive view of cloud-to-cloud connectivity and quality that enables IT to proactively detect and isolate network issues.
Deep visibility with best-in-class cloud analytics	Real-time link monitoring including loss, latency, jitter, bandwidth utilization, and AppX Score from every user and cloud to every destination.
Secure, optimized multi-cloud networking	Network security and SD-WAN capabilities combined into a unified framework with full QoE across multi-cloud environments. Insert Netskope Intelligent SSE for services including NG SWG, CASB, FWaaS, ZTNA, and much more with one click.