Netskope NewEdge

QUICK GLANCE
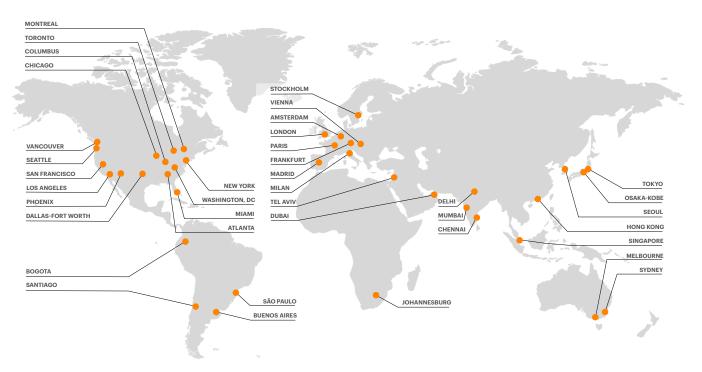
- NewEdge is one of the world's largest and fastest security networks

- Overcome the performance limitations of the public internet

- Enable real-time, proactive security without the performance trade-off

- Built and managed by a world-class platform engineering team

As enterprises embark on their digital transformation journey and adopt cloud and mobile, their security program needs to evolve to address the shortcomings that exist with legacy security tools. The security tools of yesterday force a trade-off between performance, availability, and security, limiting the scope of what security capabilities can be provided given the lack of an infrastructure that can deliver them fast, reliably and at scale.

Netskope NewEdge is a global network infrastructure that enables Netskope's cloud-native security platform to deliver real-time security without the traditional security and performance trade-off.

netskope

GLOBAL REACH

NewEdge POPs are globally distributed with more than 50 locations worldwide by the end of 2019. Getting closer to where users are is the first step towards addressing latency challenges.

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SANTIAGO
SÃO PAULO
BUENOS AIRES
JOHANNESBURG

Points of presence by the end of 2019

UNRIVALED CAPACITY AND PERFORMANCE

NewEdge was built to serve the needs of the largest enterprises in the world with the capacity to support hundreds of millions of users globally, 2Tbps of throughput per location or 100Tbps of throughout globally, and accessible by most of the world's population with an average latency of only 18.4ms.

INTERCONNECT WITH CONSUMER AND COMMERCIAL LAST MILE PROVIDERS

NewEdge POPs are collocated in data centers and connected to all the major consumer and commercial networks, to leading cloud service providers, to private exchanges and to SaaS application providers. Traffic from Netskope customers is routed via the fastest path to the Netskope security cloud and optimized on to the cloud application or web site being accessed - relying on the congested public internet as little as possible.

LATENCY OPTIMIZATIONS

NewEdge employs a variety of optimizations to overcome the effects of TCP congestion control and routing inefficiencies, increasing throughput and improving response time.

AUTO-FAILOVER

Netskope customers can be served by any POP globally and in the event that unexpected issues occur with their default POP, they are automatically routed to another POP in their configured zone.

CLOUD-SCALE

NewEdge benefits from cloud-scale with a virtually unlimited number of cloud-based resources available for compute-intensive, real-time functions such as TLS decryption, deep inspection, DLP, and malware scanning. With NewEdge, there is no need to upgrade or deploy purpose-built security appliances. Deliver real-time security from the cloud at cloud-scale.

ENABLING REAL-TIME, PROACTIVE SECURITY

Not all security impacts user experience. Cloud security use cases that use an out-of-band API deployment method do not impact user experience as they are not deployed between the users and the online resources they are accessing. While the out-of-band deployment method is needed for covering important use cases such as protecting data at rest in cloud services, the security method is reactive, providing visibility and control after a security event has already happened and it is only focused on a small number of cloud services that are managed by IT.

A comprehensive approach to cloud security involves employing both out-of-band and inline methods. You need to be deployed inline to provide real-time security that is proactive for all traffic accessed by users, whether that is cloud resources, general web access, or zero-trust access to private apps hosted in the cloud or corporate datacenter. NewEdge enables real-time, proactive security without trading off performance.

COMBINING HYPER-SCALE NETWORK INFRASTRUCTURE WITH A MODERN SECURITY CLOUD

The Netskope security cloud is a modern cloud security platform that is built on a microservices-based architecture and, when combined with Netskope's hyper-scale network infrastructure, enables massive, scale of the delivery of real-time security services such as TLS decryption, deep content inspection, data protection, threat protection, advanced analytics, and more.

BUILT AND MANAGED BY A WORLD-CLASS PLATFORM ENGINEERING TEAM

NewEdge was built and is run by a world-class platform engineering team who have helped to launch and scale some of the world's largest cloud services, carriers, CDNs and networks including Amazon Web Services (AWS), Level3 Networks, Limelight Networks, VMware, Twitch,, Microsoft and CenturyLink.