Barracuda CloudGen Firewall

MPLS replacement with broadband and secure SD-WAN

Your corporate WAN probably still has the same basic architecture that was considered state of the art more than a decade ago, with all traffic backhauled via expensive MPLS lines to a central hub, where security policies are enforced. But as digital transformation drives increasing adoption of, and dependence on, cloud-hosted applications and data, that traditional architecture is growing burdensome. It creates latency, makes bandwidth upgrades very costly, requires weeks of planning for a new location to be connected, and makes critical, cloud-hosted applications slow and unreliable.

Cloud access drives digital transformation

If you use cloud-hosted applications and services to conduct business—Microsoft Office 365 is one of the fastest-growing examples—then you may already be running up against the limitations of a pre-cloud WAN architecture. With data that was previously held in the core of the company network now accessible only via the cloud, your entire backhaul infrastructure, including the leased MPLS lines that undergird it, is becoming a costly relic of a bygone day. It needlessly introduces latency that can severely degrade performance of cloud apps. And restructuring an MPLS-based network, or scaling capacity—required to keep up with the explosion of traffic that comes with a shift to the cloud—is unacceptably costly and time-consuming.

CloudGen Firewall protects the dispersed network edge

The new architecture you need in the cloud era includes direct internet breakouts from each and every remote location on the network. But traditional "next-generation" firewalls—built to secure a single, large stream of traffic passing through a central breakout gateway—are not capable of extending a strong and consistent security posture across large numbers of distributed breakouts without a great deal of complex configuration and management overhead—amounting to a significant cost.

Barracuda CloudGen Firewall is different. Designed to deliver the capabilities you need in the cloud era, it makes it easy and simple to deploy dozens, hundreds, or even thousands of firewalls across all your sites. A central Barracuda Firewall Control Center gives you intuitive, single-pane-of-glass management across your entire security and SD-WAN infrastructure. SD-WAN capabilities also let you slash costs by replacing costly MPLS lines with bundled, affordable consumer-grade internet circuits—which gives you the added benefit of built-in redundancy and a more robust network. Barracuda CloudGen Firewall deployments working together create a virtual network edge across all your remote locations, including cloud and virtual deployments.

High performance access to applications hosted in the public cloud

In addition to its core security and application regulation capabilities, Barracuda CloudGen Firewall optimizes traffic flows both to the cloud and within your WAN. Its full SD-WAN functionality optimizes performance across your entire network.

You can replace expensive leased lines with multiple inexpensive broadband internet uplinks that are used simultaneously for logical VPN tunnels. In the event of an uplink failure, the Barracuda CloudGen Firewall instantaneously and transparently shifts sessions to the remaining uplinks, without session loss or work interruption.
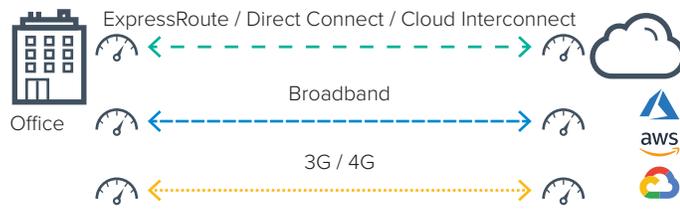

Figure 1 - Barracuda CloudGen Firewall optimizes traffic flows

Predictable Office365 and SaaS application performance

All Barracuda CloudGen Firewall models and deployment types provide centrally managed local security enforcement for direct internet breakouts at every point of your WAN. The tight integration of full next-generation security and SD-WAN capabilities allows CloudGen Firewall to enforce application-aware security policies and always assign the best available uplink according to the importance of the application. This ensure predictable SaaS application performance at a fraction of the cost of continued backhauling to the central internet breakout.
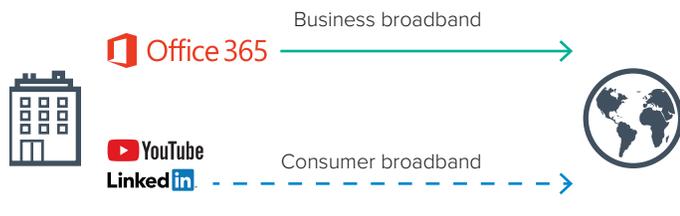

Figure 2 - Barracuda CloudGen Firewall ensures predictable SaaS application performance

Reduce WAN costs and increase availability

Built-in SD-WAN capabilities allow CloudGen Firewall to create secure pathways across multiple inexpensive broadband uplinks on multiple carriers, without increasing management overhead.

Advanced load sharing lets you use multiple WAN connections simultaneously and distribute encrypted VPN tunnels across multiple WAN connections. Built-in compression, caching, and WAN optimization technologies significantly increase your available bandwidth. These capabilities let you reduce or even eliminate expensive leased lines, consolidate multiple security functions into a single device, and create a unified management framework—all of which results in significant cost savings for your organization.

Actual Customer Example:

- Better Application Performance

- Real-time redundancy, visibility

- Savings of 6,000 USD per month

- Break even after 4 months
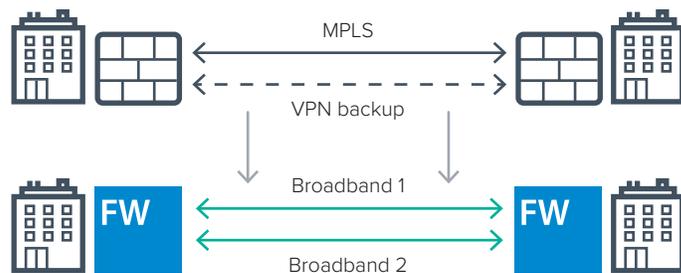
- Net savings of 311,612 USD in 5 years

Figure 3 - Customer example

Summary

Barracuda CloudGen Firewall provides a unique amalgamation of full next-generation security technology, integrated Secure SD-WAN, and public cloud readiness. This enables the most secure and uninterrupted access to company resources hosted in the public cloud or anywhere else on the corporate WAN. Full integration into Barracuda Firewall Control Center architecture with Zero-Touch Deployment guarantees hassle-free centralized management and security enforcement of thousands of remote devices and locations. REST API, SNMP, and full command line access for scripting allow custom integrations. Advanced security functions include Application enforcement, IPS, URL filtering, Malware Protection, sandboxing (Advanced Threat Protection), Botnet and Spyware protection, and Denial-of-Service protection.

Barracuda.

Your journey, secured.