

Zscaler™ for Google G Suite

Deliver a fast and secure user experience the recommended way



Adopting Google G Suite? The only metric that matters is user satisfaction.

As a critical business platform, Google G Suite can provide tremendous productivity advantages, but only if IT departments can deliver the best possible user experience. The challenge is that most networks today are not architected properly to deliver the performance and security needed for cloud and mobility. Traditional networks were designed with the data center in mind. Backhauling branch office traffic and mobile users to applications located in the data center made perfect sense. But with SaaS platforms like Google G Suite, these apps have now moved to the cloud, and are no longer in your data center or behind your gateway security appliances. In addition, your users are increasingly mobile and off network and no longer behind your security controls. So while your users and apps are off network, why do you continue to backhaul these connections through costly networking infrastructure and latency inducing security appliances? All this quickly leads to a terrible user experience and frustrated users.

For the Best User Experience, Google recommends direct internet¹



Impact of Google G Suite traffic on hub and spoke networks

With typical large deployments, Google G Suite can generate a significant increase in traffic and connections. Per Google's guidance, IT departments can expect an average increase in network utilization of up to 40 percent, and that's because each user is now generating many more persistent connections than normal. Google sizing guidance states that the typical G Suite installation for 5000 users can account for over 80,000 new persistent connections during peak times. This increase can easily overwhelm firewalls and other appliance gateways. This is why Google does not recommend deploying larger G Suite installations on traditional hub-and-spoke networks that leverage centralized gateways. This influx of new user traffic drives up appliance and backhauling costs, limits the company's ability to scale with user growth, and will significantly degraded the user experience.

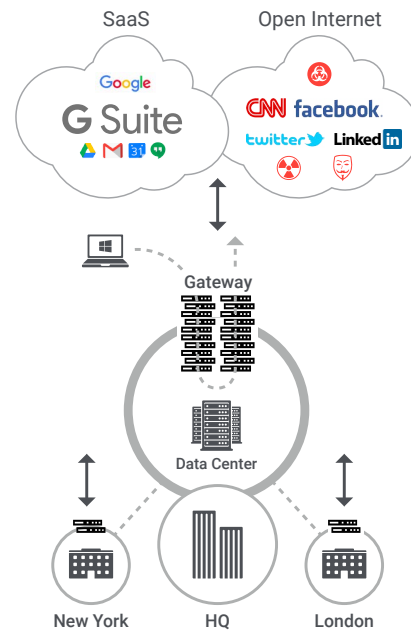
¹ Google Network best practices for large deployments

The problem with direct internet and appliances for G Suite

For best performance, G Suite was built to be accessed securely and reliably via a direct internet connection. However bypassing your gateway means bypassing your security. Deploying security appliances at each branch may seem like an option that can improve the user experience, but it is expensive to buy, deploy and maintain.

Challenges with using appliances for direct Internet

- Requires appliance capacity assessments to ensure they can handle the high number of long lived connections.
- Requires security compromises when budget limits branches to just UTMs or firewalls for security.
- Hardware limits the ability to scale as user demand and traffic grows.
- Requires local DNS connectivity for fastest performance



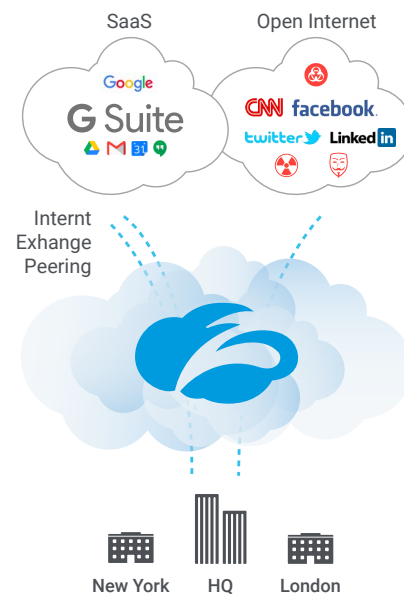
Hub-and-Spoke Network with Appliances and direct Internet

Delivering the best G Suite user experience with Zscaler

As a pioneer in cloud security, the Zscaler Cloud Platform makes deployment of Google G Suite easy. It provides your users with a fast G Suite and internet experience via local internet breakouts, while maintaining the highest level of security for open internet traffic.

Simply point your internet and G Suite traffic to the closest Zscaler data center (there are more than 100 around the world). There is no hardware to deploy and manage and since traffic is routed locally, you can reduce your MPLS spend.

Zscaler Cloud Firewall, which is application and user-aware can easily scale to support the massive number of persistent G Suite connections. Unlike with appliances, making firewall changes is simple. All you need to do is log in to the admin portal and, within seconds, your changes are enforced worldwide. Per Google recommendations, Zscaler can be configured to not inspect G Suite traffic, but does inspect all other internet traffic to keep your users safe and your data protected.



Zscaler for Google G Suite
Direct Internet for a fast and secure user experience

Controlling and securing your direct internet connection with Zscaler

With G Suite voice and video apps like Talk and Hangouts, Google recommends routing more than just web traffic directly over the internet. By using Zscaler Cloud Firewall, you easily route all required traffic directly to the internet and still provide next generation firewall capabilities. Zscaler Cloud Firewall enables full access control across all ports and protocols, for all outbound and inbound user traffic. Delivered as security stack as a service, the Zscaler Cloud Platform also enables complete content and threat inspection on your open internet traffic. With multiple security technologies like Sandboxing, CASB, DLP and URL filtering, you can restore security back to your direct internet connection for all your users open internet traffic.

Optimize G Suite connectivity with Zscaler and Google peering

The Zscaler Cloud Security Platform spans 100 data centers and peers with Google around the world to deliver connection times that are lightning fast with minimal latency and full elastic scalability. With the Zscaler Cloud Platform, DNS resolution will always be fast and local, no matter the user location.

Zscaler peering with G Suite	Scalable cloud access controls	Network path optimization
Peering in most major internet exchanges with 1-2ms round trip time.	Cloud platform can automatically scale to handle the high number of long-lived connections. Never run out of user capacity.	Local DNS always delivers a fast user connection no matter the connection location.

Prioritize G Suite Bandwidth with Zscaler Bandwidth Control

Zscaler provides sophisticated bandwidth management controls, which allow you to guarantee bandwidth for G Suite traffic during periods of contention – like when users are watching recreational on non-critical traffic like YouTube. Zscaler gracefully slows the connection – before the last mile – without discarding packets, so a user gets an uninterrupted experience. The stream is simply downgraded when contention occurs. These controls can also be applied to large file downloads (such as OS updates) that can often degrade G Suite video or voice experience.

Why Zscaler for Google G Suite?

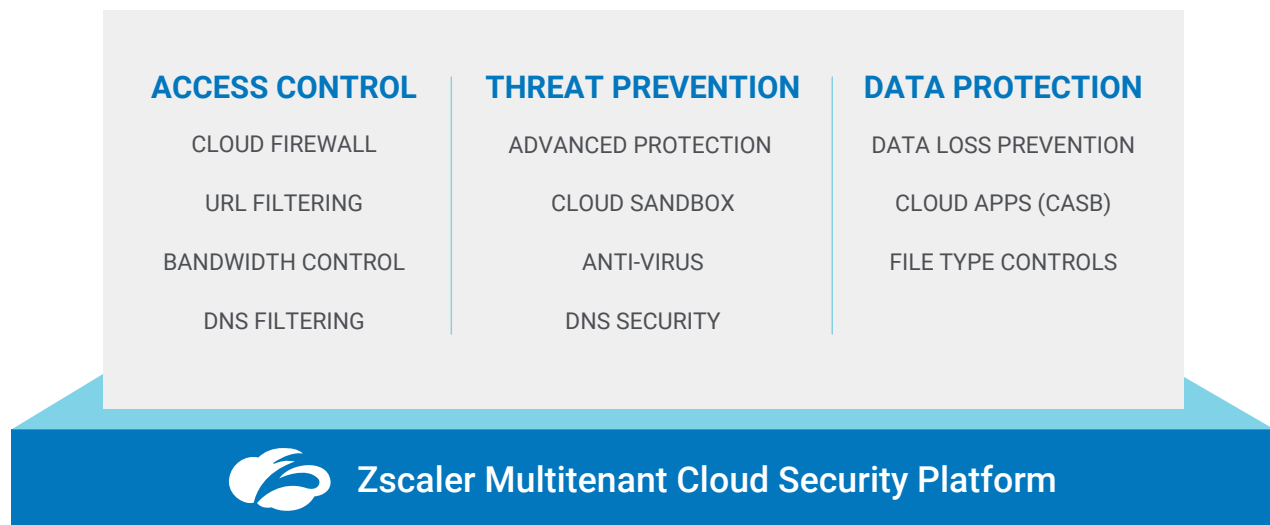
- ✓ **Proven deployment model**
- ✓ **Best user experience**
 - Fast path to Google G Suite via local internet breakouts
 - Guarantee bandwidth for G Suite
 - Peering with Google in major data centers
- ✓ **Rapid deployment**
 - No hardware or software to deploy
 - No infrastructure upgraded required
 - Easily configured to bypass traffic inspection
- ✓ **Impressive value**
 - Reduced MPLS spend
 - No appliance upgrades needed
 - Simplified management
- ✓ **Real-time visibility**
 - Immediate visibility into all internet and G Suite traffic for all users in all locations

Learn how Zscaler can help you make a good thing even better

Zscaler can make your G Suite deployment more simple, smooth, and successful, so you no appliance upgrades needed. If you already use the award-winning Zscaler Cloud Security Platform, you can easily configure Google G Suite use for your installation. Otherwise, contact Zscaler to request a [demo](#) and more information.

Zscaler Internet Access for

Used as the foundation for Google G Suite direct Internet connections, Zscaler Internet Access delivers the full security stack as a service from the cloud. By integrating security services within a multi-tenant, scalable cloud platform, enterprises can eliminate the cost, complexity and performance challenges of traditional centralized gateway approaches.



Zscaler Internet Access delivers your security stack as a service from the cloud, eliminating the cost and complexity of traditional secure web gateway approaches

About Zscaler

Zscaler was founded in 2008 on a simple but powerful concept: as applications move to the cloud, security needs to move there as well. Today, we are helping thousands of global organizations transform into cloud-enabled operations.

