

# Skyhigh Security Secure Web Gateway (SWG)

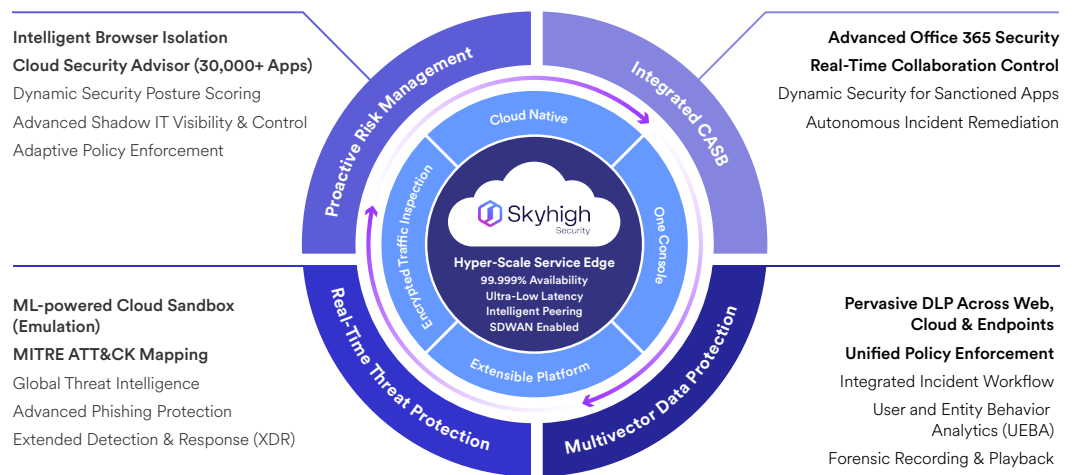
Blazing fast, low-latency, 99.999% uptime cloud-native web security

## KEY ADVANTAGES

- Maintained 99.999% service availability against the 240% increase in cloud usage during the pandemic-related lockdown
- Fully neutralize ransomware and other advanced malware with intelligent and transparent Remote Browser Isolation
- Real-time protection with Gateway Anti-malware
- Easily extend existing on-premises DLP policies to the cloud in one click and under one minute
- Unparalleled cloud-aware Secure Web Gateway with integrated CASB functionality that extends data protection to all websites and cloud applications
- Backed by global intelligence with real-time telemetry from over one billion sensors
- Save 35% to 40% annually by eliminating on-premises hardware

Today, with increased cloud adoption, more than 80% of corporate network traffic is destined for the internet. Backhauling internet traffic to a traditional web architecture depends on redirecting this internet-bound traffic through a traditional on-premises web gateway and can be costly. As traffic spikes in an increasingly work-from-home world, the network slows to a halt and employee productivity suffers. Skyhigh Security Secure Web Gateway (SWG) helps simplify the

implementation of security service edge (SSE) architecture and accelerates secure cloud adoption. Skyhigh Security SWG empowers organizations with advanced threat protection, unified data control, and the capability to efficiently enable a remote and distributed workforce — from anywhere, any application, and any device.





**BUSINESS BENEFITS**

**Better user experience**

- Uninterrupted access to the internet, corporate networks, and cloud applications, even when cloud usage spikes
- Integrated, real-time security stack delivers full security with minimal end-user latency, empowering a more productive workforce

**Highest level of protection**

- Stop threats from ever reaching the users with multi-layer security and fully integrated RBI
- Stay out of data breach news and compliant with regulations with superior DLP technology

**Simplification and reduced total cost of ownership**

- A single pane of glass management for policies, incidents, and workflows across multiple environments
- Cost savings from reduced hardware and elimination of expensive MPLS traffic
- Increased performance, reliability, and scalability

Skyhigh Security unifies web gateway cloud service with Remote Browser Isolation (RBI), Cloud Access Security Broker (CASB) technology, and Data Loss Prevention (DLP) capabilities to provide a cloud-native Secure Web Gateway service that protects organizations from zero-day threats and enforces data protection across endpoints, networks, and clouds. By converging these core technologies into one solution, Skyhigh Security enables organizations to implement a simplified SSE architecture that delivers:

- Comprehensive visibility and consistent controls over data from device to cloud
- Consistent threat protection with unified management and investigations
- Direct-to-cloud infrastructure with enterprise scale and resilience

**Hyper-Scale Service Edge**

Keeping remote workers productive, data secured, and endpoints protected can be overwhelming at times. Our Secure Web Gateway provides organizations with the scalability and security to support today’s remote workforce and distributed digital ecosystem.

Instead of backhauling internet traffic to the corporate headquarters, We deliver robust native support for virtually any SD-WAN solution via site-to-site and site-to-cloud deployments, leveraging industry standard Dynamic IPsec and GRE protocols. To date, Skyhigh Security has certified interoperability with six of the industry’s leading SD-WAN vendors, including Viptela (Cisco), VeloCloud (VMware), and Citrix, with even deeper partnerships forged with Silver Peak, Fortinet, and Versa Networks. This is possible through our Security Innovation Alliance program, one of the industry’s largest technology partnership programs.

Furthermore, we offer a true cloud-grade service with consistent 99.999% availability. From March 2020 to June 2020, we saw an industry-wide cloud security service load increase, ranging from 200% to 700%. While other security vendors faced similar surges and suffered significant downtime, Skyhigh Security maintained its 99.999% availability throughout this time. Our Secure Web Gateway helps ensure availability, lower latency, and maintain user productivity— rom anywhere, any application, and any device.

**Why Five 9s Matter**

Difference in allowed downtime based on uptime service-level agreement (SLA):

	99.999% uptime	99.99% uptime	99.9% uptime
<b>Day</b>	0.9 sec	9 sec	86.4 sec
<b>Week</b>	6 sec	1 min	10 min
<b>Monthly</b>	26 sec	4 min	44 min
<b>Year</b>	5 min	52 min	525 min

**Figure 1.** Downtime calculation example.

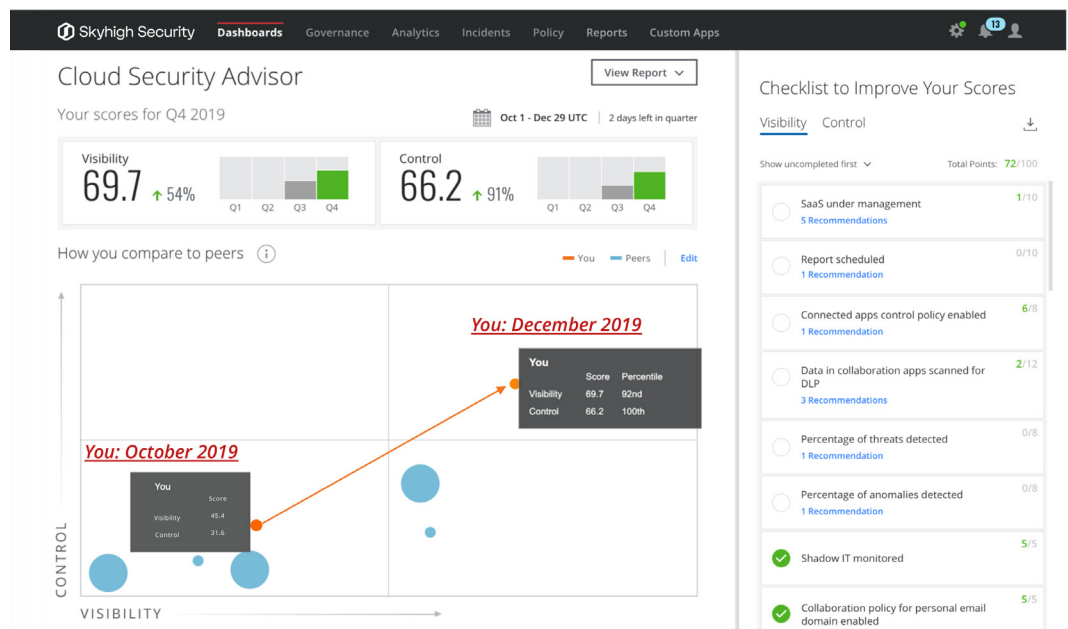


### Proactive Risk Management

With increasingly stringent compliance regulations and costly data breach incidents, Skyhigh Security Secure Web Gateway proactively protects users, data, and applications to help organizations minimize their cloud and web attack surface. It offers integrated RBI, automatically mitigating the risk from unknown websites. Not only does it ensure unknown threats from ever reaching the endpoints, it accomplishes this in a fully transparent way so that the user experience is not hampered.

Furthermore, Skyhigh Security has the industry’s largest cloud application repository—more than 30,000 applications in its cloud database with over 60 attributes each. This provides real-time insights to our Cloud Security Advisor that generates automated risk scoring in relation to industry best practices and peers, as well as prescriptive guidance to improve an organization’s security posture.

- Take advantage of the industry’s largest cloud application repository (more than 30,000 applications)
- Leverage global intelligence with real-time telemetry from over one billion sensors



**Figure 2.** A real-world customer who improved visibility by 54% and control by 91%. Improvements resulted from blocking high-risk services and enabling low-impact DLP and collaboration limitations.



### Integrated CASB

Companies today use cloud services, and store sensitive data in the cloud. Personal devices can attempt to access enterprise cloud services such as Microsoft 365. Skyhigh Security Secure Web Gateway integrates with Skyhigh Security CASB to help organizations control access to all cloud services and protect against threats that occur within them from a single console. Due to our robust DLP engine with integrated CASB functionality, our Secure Web Gateway takes away the risk of data loss as users visit websites or cloud apps—ensuring your organization remains compliant with policies and regulations.

Granular yet flexible, Cloud Application Control provides the users the ability to upload or download documents based on the risk score of the cloud application. Tenant Restriction can differentiate between personal and corporate accounts for cloud services like Microsoft 365, blocking personal accounts from accessing corporate services. With Skyhigh Security Secure Web Gateway, administrators have access to both our CASB and our cloud-native secure web gateway from a single management interface, which provides unified policies that deliver unprecedented cloud control, keeping users safe from threats and data safe from accidental loss. In addition to managing sanctioned applications, Skyhigh Security offers granular policies for unsanctioned applications for complete visibility and control.

- Leverage superior SaaS-aware data and threat protection with in-depth SaaS registry of more than 30,000 services
- Extend data protection to all websites and cloud applications due to integrated CASB functionality



Figure 3. A single pane of glass management interface to manage web-based and cloud-based risks and threats.



### Real-Time Threat Protection

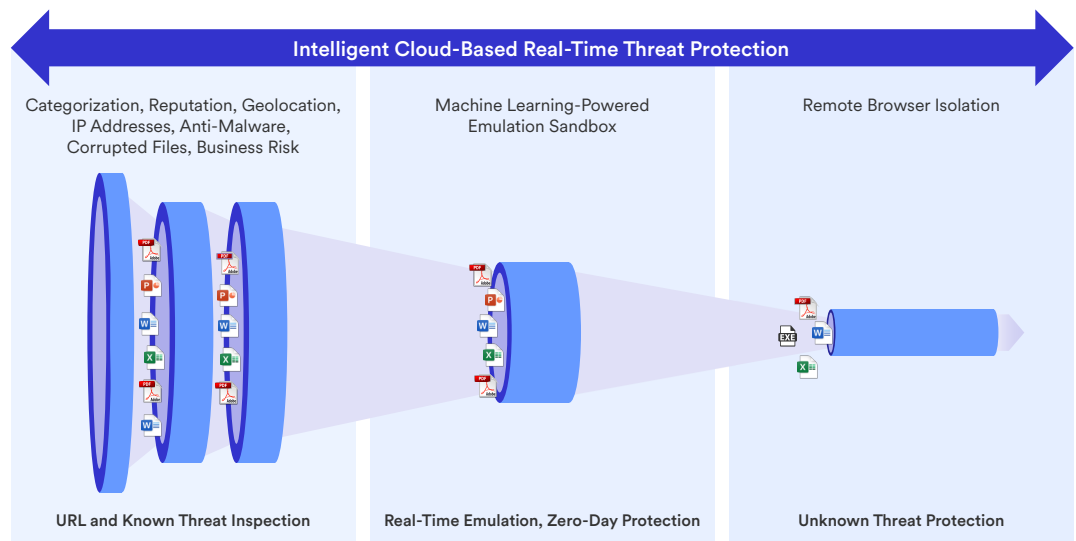
As the web continues to grow and evolve, web-born malware attacks grow and evolve as well. Ransomware, phishing, and other advanced web-based threats are putting users and endpoints at risk. Skyhigh Security Secure Web Gateway provides real-time zero-day malware and advanced phishing protection. This multilayered approach integrates dynamic threat intelligence for URL, IPs, file hashes, and real-time protection against unknown threats with machinelearning and emulation-based sandboxing.

Furthermore, our Secure Web Gateway provides the capability to decrypt, inspect, and reencrypt SSL/TLS traffic so that threats and sensitive data cannot hide in encrypted traffic.

### Remote Browser Isolation

Remote Browser Isolation (RBI) offers a secure web browsing experience for end users by preventing elements of a web page from reaching or attack a client browser. Skyhigh Security prevents unknown threats from ever reaching endpoints by integrating intelligent yet transparent Remote Browser Isolation, leveraging powerful machine learning analysis on real-time telemetry from over one billion sensors. This powerful combination of security and excellent performance also simplifies the adoption of a Security Service Edge (SSE) to provide customers with a transparent user experience that requires no change in behavior.

- Employ nine layers of protection technologies to ensure that threats never reach endpoints
- Eliminate 20% more threats with real-time emulation sandbox and integrated Remote Browser Isolation



**Figure 4.** Defense-in-depth architecture provides zero-day malware protection with integrated multilayer security.



### Multi-vector Data Protection

More than 95% of companies today use cloud services, yet only 36% of companies can enforce data protection rules in the cloud at all. Skyhigh Security Secure Web Gateway offers an effective way to enforce protection with built-in DLP

templates and inline data protection workflows to help organizations comply with regulations. Its device-to-cloud data protection offers comprehensive data visibility and consistent protection of data across endpoints, web, cloud and private applications.

- Extend existing DLP policies to the cloud with one click and in under one minute
- Organizations benefit from unified classification, unified policy, and unified incident management

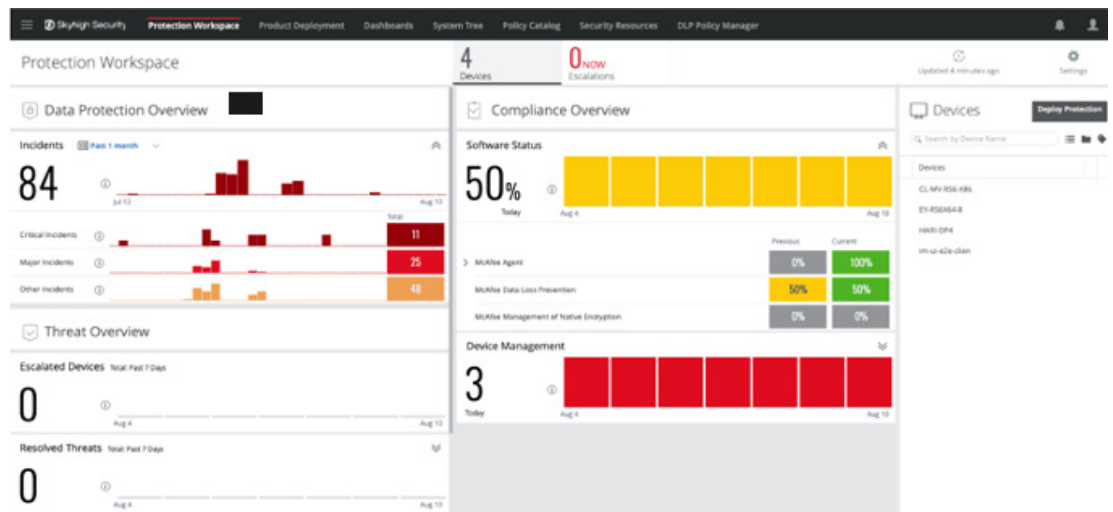


Figure 5. Protection Workspace offers a consolidated view of compliance and data protection.

### Summary

Skyhigh Security SWG is the cloud-native web security solution that provides the most advanced layered protection from threats and data loss with integrated RBI, CASB, and industry leading DLP capabilities in the web and cloud. It enables organizations to implement a simplified SSE architecture that delivers the security, scalability, and availability that is required for a distributed and remote workforce.



## About Skyhigh Security

When your sensitive data spans the web, cloud applications, and infrastructure, it's time to rethink your approach to security. Imagine an integrated Security Service Edge solution that controls how data is used, shared, and created, no matter the source. Skyhigh Security empowers organizations to share data in the cloud with anyone, anywhere, from any device without worry. Discover Skyhigh Security, the industry-leading, data-aware cloud security platform.

## Learn More

For more information visit us at [skyhighsecurity.com](https://skyhighsecurity.com)



6220 America Center Drive  
San Jose, CA 95002  
888.847.8766  
[skyhigh.com](https://skyhigh.com)

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