

Menlo Web Security—Secure Web Gateway with an Isolation Core™

Secure Web Traffic and Eliminate Malware



Business systems are moving to the cloud, yet traditional cybersecurity solutions were not designed for the cloud and are failing to protect users from advanced web malware attacks. The answer? Secure cloud access powered by the Menlo Secure Web Gateway (SWG) with an Isolation Core™.

Major Challenges with Cloud Transformation

Cloud transformation means that for the first time, more user work is being performed off the enterprise network than on the enterprise network. This sea change breaks the traditional hub-and-spoke network architecture model in which there is a natural central security point. This is a result of changing traffic patterns caused by SaaS platforms and web apps—specifically global usage patterns and persistent connections.

Unfortunately, the existing network stack (firewall, secure web gateway, etc.) is unable to support these changing traffic patterns, so it leaves a huge blind spot in an enterprise's security posture. Security teams lose visibility and control into web traffic flowing into and out of the organization, the user experience is fundamentally changed, and a hole is blown in the IT budget.

Running parallel to these architecture challenges is the fact that the Internet remains like the Wild West, since virtually any website, link, or web advertisement can be used to deliver malware today. Opening access to everything on the web or, conversely, limiting access to the Internet is counterproductive and stretches an already overburdened IT support team. There is no simple way for security professionals to differentiate safe content from malicious content—putting the organization at risk while inhibiting the productivity of users.

Today's Cybersecurity Landscape:

- Cloud transformation is changing how users access business systems in the cloud
- Traditional network and security architectures were not designed for the cloud, making it tough for them to protect web users
- Users are falling prey to phishing, social media attacks, credential theft, and other advanced web malware attacks—putting users and the organization at risk



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Threat Landscape Continues to Evolve with Cloud Access

Traditional secure web gateway (SWG) solutions give enterprises the ability to allow or block Internet content based on policies, but how do you know what to block and what to allow? In addition, legacy SWGs are based on a detect-and-respond approach to security that identifies only known threats, making it virtually impossible to keep up with increasingly sophisticated cyberattacks. These legacy SWGs rely on inaccurate risk data or signatures from threat intelligence databases or use behavior monitoring to detect anomalies, resulting in false positives and negatives and delayed detection. Dynamic and active content—used in the majority of commonly visited sites today—makes it impossible to keep up.

Additionally, protecting the enterprise from today's cybersecurity threats requires deep insights and context into threats and vulnerabilities as well as user web and email behavior. Security analysts and threat detection and response teams need to know exactly what users were doing at the moment an attack occurs. However, visibility into user behavior is difficult to come by, if it exists at all.

The existing approach to web security and malware prevention results in tools sprawl and overburdened security teams, and it is ineffective and expensive. Web-based attacks are far too common and successful. It's clear that today's threat landscape and cloud transformation challenges require a fundamental rethinking of the network architecture—replacing it with an architecture that is designed for the cloud and supports SaaS applications.

Cloud Transformation Requires a Direct-to-Internet Approach

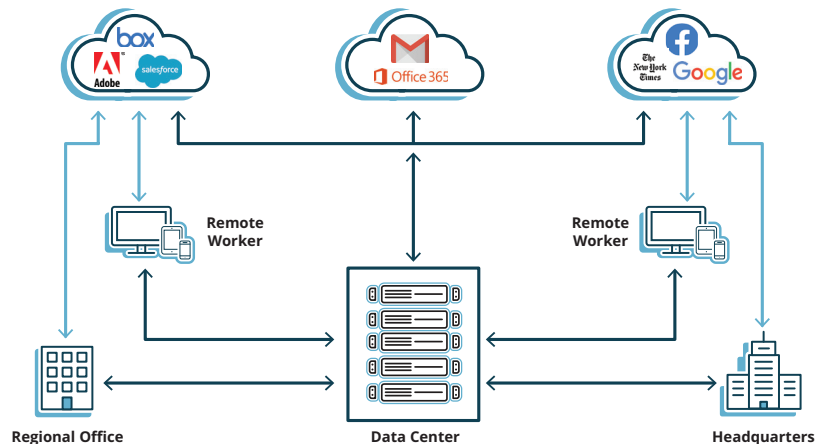


Figure 1: Cloud transformation is challenging traditional traffic patterns, making it necessary to rethink how enterprises provide secure Internet access for users.



Menlo SWG with an Isolation Core

The Menlo Secure Web Gateway with an Isolation Core delivers the capabilities enterprises need to achieve Secure Cloud Transformation. Delivered from a global elastic cloud as a service, the Menlo SWG allows users to connect securely to the Internet from anywhere business takes them. Enterprises can be assured that they are protected from web-based cyberthreats; granular access and security policies are enforced; web traffic is controlled, monitored, and protected; data leaks and credential theft are prevented; cloud apps are secure; and compliance is ensured across all devices and locations. The Menlo SWG does this with unmatched performance and scale.

The Menlo Security Isolation Core works by assuming that all web content is risky and hosts potentially malicious content. This approach eliminates the need to make an allow-or-block determination based on coarse categorization and detailed analysis. Customers should employ an isolate-or-block policy instead. For content that is allowed, Menlo Adaptive Clientless Rendering™ (ACR) efficiently delivers authorized content to the end user's browser with no impact on user experience or productivity, and with no need for special client software/plug-ins. This restores 100 percent confidence in the security posture for security teams, as well as worry-free and productive clicking, downloading, and browsing for end users.

The Menlo Security Cloud Platform:

- Provides a secure direct-to-Internet architecture designed for SaaS
- Autoscales security and bandwidth to meet growth in the number of users, devices, and applications
- Centralizes security controls and visibility for data protection

Isolated Access to the Internet

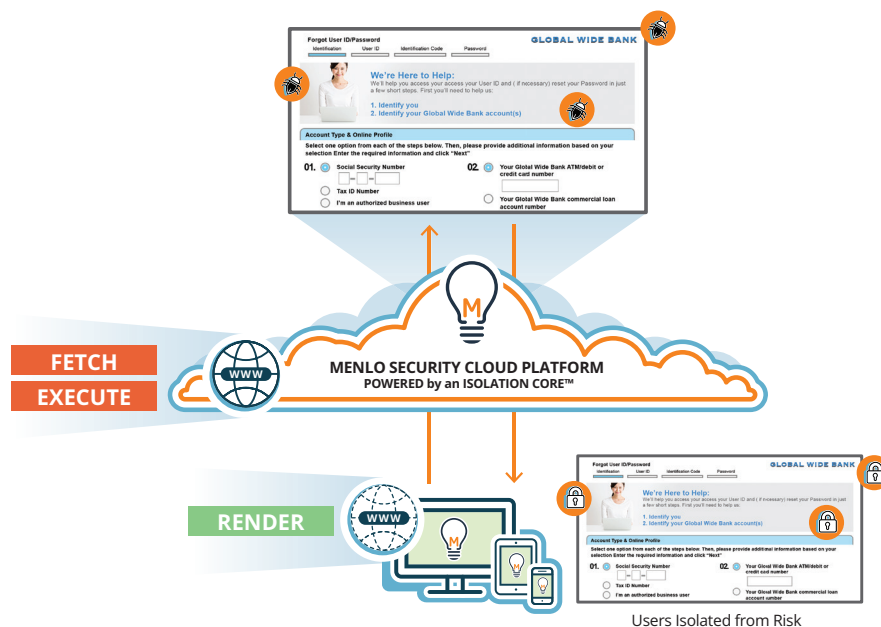


Figure 2: The Menlo Security Cloud Platform



Menlo Security Cloud Platform Powered by Isolation



Email Security

- Automatically isolate links and attachments
- Protect users from unknown phishing sites and ransomware attacks
- Block credential theft with read-only versions of risky web forms
- Warn users of phishing attacks at time of click



Web Security

- Eliminate watering-hole attacks and other web-based threats
- Ensure unfettered access to the entire Internet without fear of an attack
- Continue to use traditional web access controls with your proxy-based solution
- Enable scalable HTTPS inspection without using hardware-based appliances



Threat Prevention

- Assume that all web content is malicious and isolate all threats
- Analyze and detonate known threats in a cloud-based sandbox before they enter the network
- Render documents and files in read-only mode
- Leverage existing detect-and-respond technologies to stop known threats



Data Protection

- Protect the organization from data exfiltration
- Gain visibility into data entering and exiting your enterprise through cloud-based DLP
- Provide Cloud Application Security Broker (CASB) functionality with the click of a button
- Discover and control user access to known and unknown cloud applications

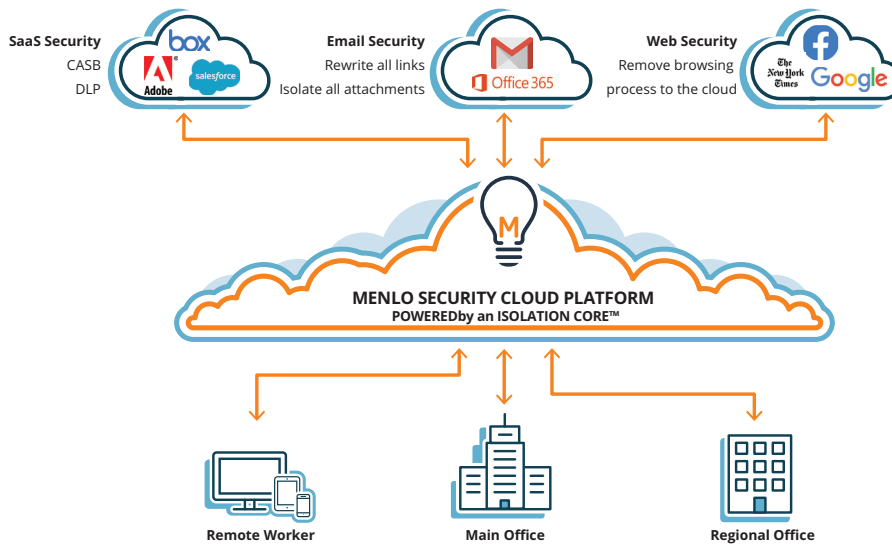


Global Elastic Cloud

- Ensure secure Internet access for users wherever business takes them
- Ensure consistent performance without changing the native browsing experience for users
- Support an increasingly global user base
- Enforce Internet access controls and policies consistently across geographies



Menlo Security Delivers Secure Cloud Transformation



The Bottom Line

Cloud transformation is happening, and users need secure and reliable access to SaaS platforms, web apps, and rich-media websites—wherever business takes them. The Menlo Secure Web Gateway with an Isolation Core provides secure web access without impacting performance or changing the native web browsing experience. At the same time, IT departments are able to scale security services in the cloud to meet the natural ebb and flow of today's demand while reducing operational costs. By securing traffic flowing into and out of the organization, Menlo enables cloud transformation so enterprises can continue to innovate quickly and respond to dynamic customer demands.

To learn more, visit menlosecurity.com or email ask@menlosecurity.com.

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About Menlo Security

Menlo Security protects organizations from cyberattacks by eliminating the threat of malware from the web, documents, and email. Menlo Security has helped hundreds of Global 2000 companies and major government agencies achieve Secure Cloud Transformation. The company's Cloud Security Platform scales to provide comprehensive protection across enterprises of any size, without requiring endpoint software or impacting the end-user experience. The company was named a Visionary in the Gartner Magic Quadrant for the Secure Web Gateway.

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