Menlo Security Secure Internet

Secure Cloud Proxy with an Isolation Core™

Business systems were previously located in the customer's perimeter and had to be accessed via VPN to a company-owned data center. Enterprises now choose SaaS offerings most often when purchasing software, yet traditional cybersecurity solutions were not designed for the cloud and are failing to protect users from advanced web malware attacks. The answer? The Menlo Security Secure Internet product suite with an Isolation Core™ to eliminate malware for good.

Top Use Cases at a Glance

Web Security and Threat Protection

- 100% malware protection with full isolation, not just for risky categories
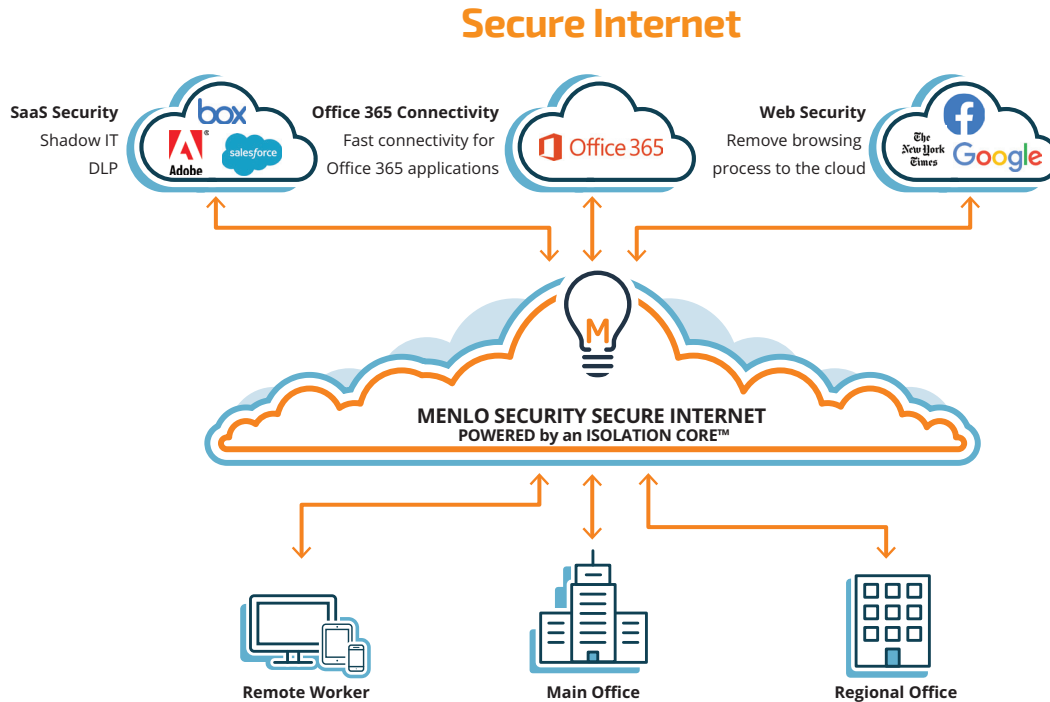
SD-WAN Security

- Standards-based integration with SD-WAN providers

Data Protection and Cloud Control

- Information security protection via cloud-based DLP and increased visibility for on-premises DLP solutions

Security and Performance for Office 365

- Automatic policy updates to align with changes in IP addresses associated with Office 365 infrastructure changes

Product Overview

Menlo Security sees enterprises transforming their infrastructure driven by the adoption of SaaS. The adoption of SaaS is happening faster than people anticipated in the average enterprise. Traditional web security 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, these solutions 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 solutions rely on inaccurate risk data or signatures from threat intelligence databases, or they 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. 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.

Secure Internet

The Menlo Security Secure Internet product suite with an Isolation Core™ delivers the capabilities that enterprises need to achieve Secure Cloud Transformation. Delivered from a globally elastic cloud as a service, the Menlo Security Secure Internet product suite 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 with Menlo Security's Isolation Core™—granular access and security policies are enforced, data leaks are prevented, cloud apps are secure, and compliance is ensured across all devices and locations.

The Menlo Security premise is that traditional Advanced Threat Detection (ATD) solutions available for web security are inadequate for securing the enterprise from today's increasingly sophisticated and constantly evolving threats. That's why we've developed our Isolation Core™ as the perfect approach to ATD. The Isolation Core™ isolates all web code and files in our cloud-based secure browser before rendering only mirrored, safe content on users' devices. That way, advanced threats never have an opportunity to touch users' devices—taking the error-prone detection approach entirely out of the equation and providing 100 percent protection from malicious web- and file-based threats.

In addition to providing perfect security with its Isolation Core™, Menlo Security gives administrators the ability to set acceptable use policies to block malicious activity—including uncategorized websites, cybersquatting, file uploads and downloads, social posting, and other unknown threats. Policies can be made per user, group, file type, or website categorization (or lack thereof)—determining when content is blocked, when it is rendered in read-only mode, or when the original content should be accessible. The Menlo Security Secure Internet product suite does this with unmatched performance and scale.

Key Differentiators

The Menlo Security Secure Internet product suite is built on the Global Elastic Cloud to ensure direct-to-cloud Internet access while providing core proxy capabilities. Being a web proxy, the gateway terminates and proxies Internet traffic, and addresses that traffic through security checks, including URL filtering, sandboxing, data loss prevention, anti-virus scanning, cloud access security brokers, and other consolidated technologies. The Menlo Security approach uses four core differentiators to provide secure Internet access:

The Menlo Security Isolation Core™ for 100% Security

The Isolation Core™ is Menlo Security's solution for protecting customers against zero-day web malware. Instead of relying on detect-and-respond technologies like sandboxing, the Menlo Security Isolation Core™ works by assuming that all web content is risky and potentially malicious, and thus neutralizes it by isolating it. This approach eliminates the need to make an allow-or-block determination based on coarse categorization and detailed analysis, and employs an isolate-or-block policy instead. For content that is allowed, Menlo Adaptive Clientless Rendering™ (ACR) technology 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 or plug-ins.
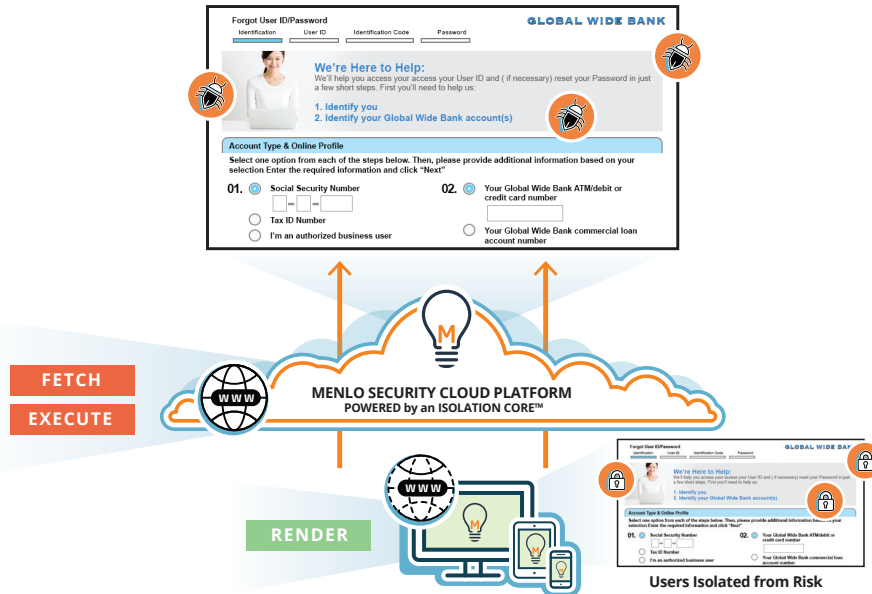
Cloud DLP

Menlo Security Cloud DLP discovers and stops sensitive data as it is leaving an organization. Global Custom Libraries allow administrators to create custom data types to monitor unique data types, including most common U.S., Latin American, and East Asian data types. Granular Policy Management enables information protection policies to be quickly enforced across the entire organization and provide instant visibility into risky users in the organization who might be leaking sensitive data.

With the Menlo Security Isolation Core™ enabled, customers with existing on-premises DLP deployments will gain visibility into form submissions—visibility that is not available today with their existing solution. In addition, the Menlo Security architecture enables administrators to send messages to users who are violating policies within their browser session, uniquely training users about data security.

Global Elastic Cloud with Low Latency

Menlo Security has created a Global Elastic Cloud to deliver widely available local Internet breakout service. Businesses rely on local Internet breakout to give their branch and remote workforce faster access to Internet-based services. With Menlo Security, users can connect to the Internet safely from any location in the world without the need to backhaul their web traffic over expensive MPLS connections, which typically impacts user experience negatively. To ensure a seamless user experience, Menlo Security provides globally available Cloud Points of Presence that have a global footprint and can dynamically scale to match surges in traffic patterns while allowing for direct-to-Internet connectivity from anywhere in the world. The Menlo Security Cloud Platform is delivered with high availability, autoscaling, and bandwidth management that is completely transparent to the user. With more than 30 ISO 27001 and SOC2–certified data centers worldwide, Menlo achieves 99.999 percent global availability with transparent and automatic failover between data centers—making it possible to fully protect your users no matter where they do business around the world.

Menlo Insights (Reporting Platform)

The Menlo Security Secure Internet product suite utilizes the Menlo Security Global Cloud Proxy, which helps enterprises achieve Secure Cloud Transformation and offers dedicated monitoring and forensics capabilities that can analyze users' web browsing and email activity, allowing security teams to quickly identify, respond to, and mitigate risks. Rather than rely on traditional general-purpose log management platforms or SIEM solutions, security and forensics teams are able to use the Menlo Security reporting platform to deliver deep insights into both user activity and protection delivered to customers. Menlo Insights keeps stakeholders informed by providing rich reporting that includes daily, weekly, or monthly automatic reports, as well as enabling administrators to create custom reports. Also unique to Menlo Security is the Menlo Query Language, which enables administrators to seamlessly query Menlo Security event logs to gain insights, understand risks, and keep the organization safe.

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. Enterprises can no longer assume that their traditional detect-and-respond security strategy is enough to stop all web-based malware attacks. The Menlo Security Secure Internet product suite with an Isolation Core™ provides secure web access without impacting performance or changing the native web browsing experience. The Isolation Core™ gives enterprises a secure and reliable web security approach that provides security teams with the visibility and control they need without impacting the user experience. Designed to thwart modern cybersecurity threats, the Isolation Core™ enables enterprises to keep users and the organization safe.

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 Secure Cloud Transformation.

In summary, the Menlo Security Secure Internet product suite:

- Provides 100 percent security for web traffic with a 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.

Menlo Security—Internet Isolation Key Features and Benefits

| Feature	Benefits
Web Isolation	• Safe viewing of websites by executing all active and risky web content (JavaScript and Flash) • All native web content is discarded in disposable containers using stateless web sessions • Native and seamless user experience
Document Isolation	• Safe viewing of documents by executing all active or risky active content in the cloud, away from the endpoint • Option to download safe cleaned or original versions of documents • Granular policies to limit document access based on file type and user
URL Filtering and Acceptable Use Policy (AUP)	• Limit user interaction for specific categories of websites (75+ categories) • Control employee web browsing via granular policies (user, group, IP) • Document access controls, including view only, safe, or original downloads based on file type
Bandwidth Control	• Enable User/Group Policy to predictably control bandwidth • With the Isolation Core™, Menlo provides unique bandwidth control capabilities for any video content to enhance the user experience
Content and Malware Analysis	• Integrated file analysis using file hash check, anti-virus, and sandboxing • Integration with existing third-party AV and sandboxing solutions • Inspect risky content and detect malicious behavior of all original documents downloaded

Feature	Benefits
Analytics and Reporting	• Built-in and custom reports and alerts with detailed event logs and built-in traffic analysis • Built-in and custom queries for flexible exploration and analysis of data • Export log data using API to third-party SIEM and BI tools
User/Group Policy and Authentication	• Fine-tune policies for specific users or groups • Integrates with SSO and IAM solutions with SAML support for authentication of users
Encrypted Traffic Management	• Intercept and inspect TLS/SSL-encrypted web browsing traffic • Provisionable SSL inspection exemptions ensure privacy for certain categories of websites • Expose hidden threats in encrypted sessions
Data Loss Prevention (DLP)	• Restrict document upload to the Internet • Integration with third-party DLP (both on-premises and cloud-based DLP) • Isolation Core™ provides increased visibility for on-premises solutions
Cloud Access Security Broker (CASB)	• Deep visibility of SaaS application traffic to ensure compliance • Integration with third-party CASB solutions • Granular policy control for SaaS applications
Global Cloud Proxy:	• Centrally configure web security and access policies that are instantly applied to any user on any device • Hybrid deployment support with no differences in a policy • Works with native browsers with broad browser support
Connection Methods and Endpoint Support	• Proxy Automatic Configuration (PAC)/Agent-based traffic redirection • IPSEC/GRE network traffic redirection support • Seamless integration with top SD-WAN providers
Cloud Delivery with Fast Access	• Global Elastic Cloud with autoscaling and least-latency-based routing allows connectivity from any location • ISO 27001 and SOC 2–certified data centers • Secure and optimal web access for remote sites and mobile users

Menlo Security's Product Suite

The Menlo Security Secure Internet product suite is part of the company's global product suites that have been intentionally crafted to help customers with moving security to the cloud. The four product suites offered by Menlo Security are:

1. **Menlo Security Global Cloud Proxy**—Designed to enable a seamless transition for moving traditional web security to the cloud while enabling a local Internet breakout strategy with or without SD-WAN integration, as well as optionally adding data protection capabilities in the form of Cloud DLP and/or CASB services.

2. **Menlo Security Secure Internet**—The Menlo Security Global Cloud Proxy suite with the additional focus of eliminating web threats with an Isolation Core™, and optionally adding data protection capabilities in the form of Cloud DLP and/or CASB services.

3. **Menlo Security Secure Office 365**—Ensure that Office 365 deployments remain secure without user performance degradation when accessing Office 365 applications via the Menlo Security Global Cloud Proxy. Menlo Security's Isolation Core™ uniquely protects against malicious email links and attachments as part of this suite. Optionally, the suite allows customers to add data protection capabilities in the form of Cloud DLP for email.

4. **Menlo Security Secure G Suite**—Customers are adopting G Suite email, and with the Menlo Security Isolation Core™, they are protected from malicious email links and attachments. Optionally, the suite allows customers to add data protection capabilities in the form of Cloud DLP.
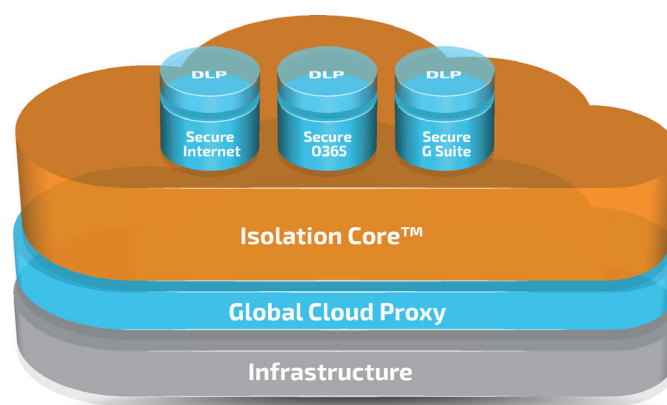
To learn more about how to ensure secure Internet access for your employees without posing a risk to the organization, visit menlosecurity.com or email us at ask@menlosecurity.com.

About Menlo Security

Menlo Security protects organizations from cyberattacks by seeking to eliminate the threat of malware from the web, documents, and email. Our cloud-based Isolation Platform scales to provide comprehensive protection across enterprises of any size, without requiring endpoint software or impacting the end-user experience. Menlo Security is trusted by major global businesses, including Fortune 500 companies and financial services institutions.

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