

# VMware SD-WAN + Menlo Security

## Secure and Reliable Cloud-Delivered SD-WAN



As software as a service (SaaS)-delivered applications become mainstream, the traditional approach of backhauling traffic over Multiprotocol Label Switching (MPLS) to a centralized data center is inefficient and does not meet user expectations. This legacy hub and spoke architecture is not only expensive but also introduces unnecessary complexity, negatively impacting the user experience. To support the transition to cloud while maintaining the desired user experience, enterprise network architects are reevaluating the design of their wide area network (WAN) architecture to efficiently route Internet traffic. To take advantage of inexpensive and ubiquitous broadband Internet services, customers are turning to software-defined wide area networking (SD-WAN).

The cloud-delivered VMware SD-WAN™ by VeloCloud® simplifies how traffic is steered and provides bandwidth optimization for the branch minus the complexity and efforts of MPLS. VMware SD-WAN enables direct access to cloud applications for branch users through a distributed network of cloud-based VMware SD-WAN Gateways and the VMware SD-WAN Orchestrator with branch VMware SD-WAN Edges.

Unique to the VMware SD-WAN approach is the Dynamic Multipath Optimization™ (DMPO) technology that steers traffic on a per packet basis to the optimal path as well as remediates transmission degradations. The VMware SD-WAN Orchestrator offers a single pane of glass, enabling admins to define policies, deploy new services, and monitor and manage all the deployed VMware SD-WAN Edges.

Despite the numerous advantages, connecting all branch locations directly to the Internet also introduces significant security risks, such as users falling prey to phishing, social engineering, credential theft, and other advanced web malware attacks—putting users and the organization at risk. This is particularly challenging to manage with limited IT resources.

### Menlo Security Cloud Platform

The Menlo Security Cloud Platform 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 Secure Web Gateway (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.

Menlo Security and VMware SD-WAN combine Menlo's Cloud Security Platform and VMware's SD-WAN solution to secure and optimize Internet access. Together they enable web isolation and secure web gateway functionality for business-critical cloud applications from branch and remote office locations.

The Menlo Security Cloud Platform 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. Instead, an effective approach is to employ an isolate-or-block policy. For content that is allowed, the Menlo Security Cloud Platform 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. 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.

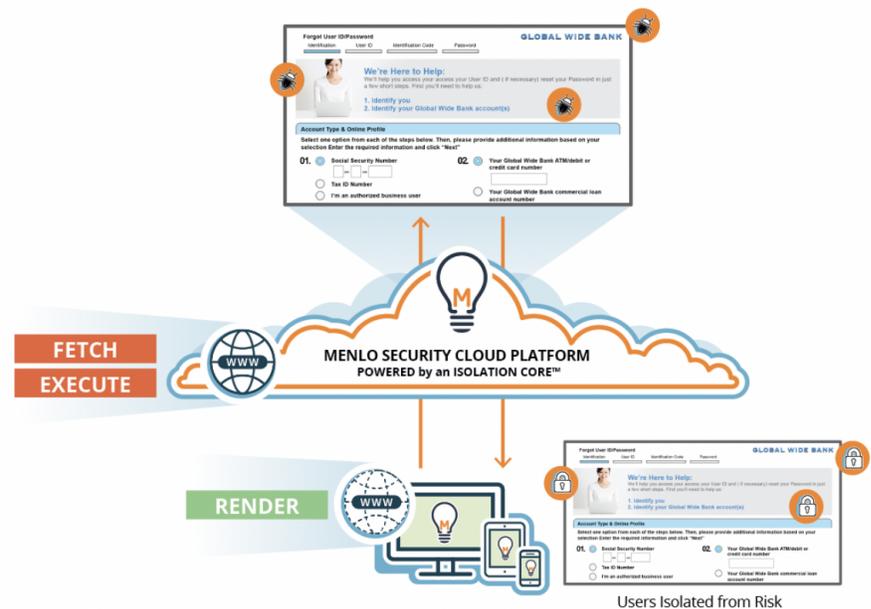


FIGURE 1: The Menlo Security Cloud Platform

### Menlo Security and VMware SD-WAN

Menlo Security Cloud Platform and VMware SD-WAN make it easy to migrate from a hub and spoke to an Internet-only branch architecture by enabling secure and optimized local Internet breakouts. With cloud-delivered VMware SD-WAN, network administrators determine what traffic to steer to Menlo Security. Typically, all Internet-bound traffic is forwarded to Menlo Security, steering branch traffic from the VMware SD-WAN Edge to the Menlo Security Cloud Service using IPsec tunnels. If needed, customers have the flexibility to steer traffic via the VMware SD-WAN Gateway. Menlo Security secures all traffic in the cloud, without requiring security appliances and VMware SD-WAN delivers DMPO, ensuring the optimal path and remediating degradation. The combined Menlo Security and VMware SD-WAN solution delivers a high-performance SD-WAN solution that securely connects branches to the Internet while maintaining the desired user experience.

One-click service insertion capabilities provided by the VMware SD-WAN business policy framework reduce complexity and align business policies with application needs and business objectives. Traffic policies can be effectively managed to easily forward traffic from many branches to the Menlo Security Cloud Platform. Together, Menlo Security and VMware SD-WAN strengthen an organization's security posture while delivering a highly reliable SaaS experience.

**HIGHLIGHTS**

- Secure access to the Internet and SaaS via Menlo Security Cloud Platform with Isolation Core™
- Enforce security and access policies across all locations
- Faster user experience for branch mobile users with low latency web security
- 100% protection from web and email threats
- Steer traffic selectively to Menlo Security Cloud Platform

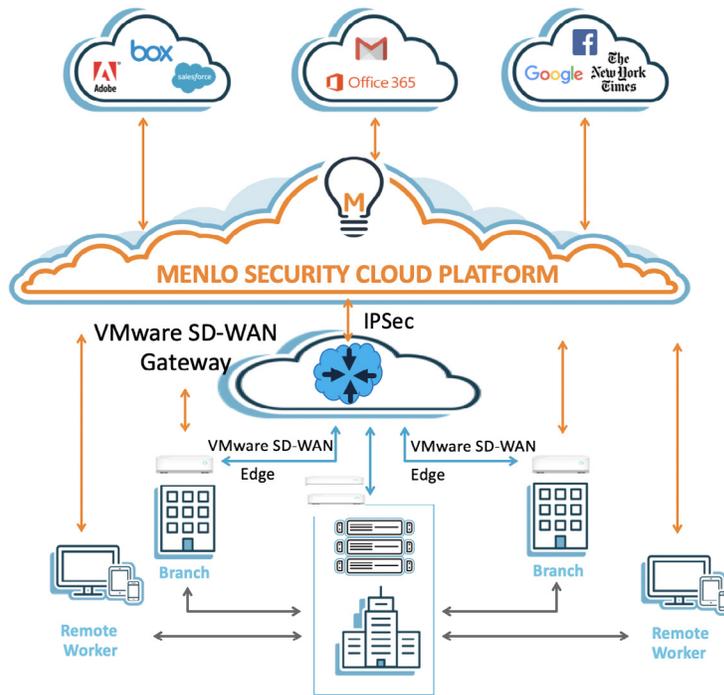


FIGURE 2: Secure and reliable cloud-delivered VMware SD-WAN

**About Menlo Security**

Menlo Security protects organizations from cyber-attacks by eliminating the threat of malware from the web, documents and email. Its cloud-based Isolation SWG 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 SWG. Menlo Security is trusted by major global businesses, including Fortune 500 companies and financial services institutions, and backed by General Catalyst, Sutter Hill Ventures, Engineering Capital, Osage University Partners, American Express Ventures, Ericsson Ventures, HSBC and JP Morgan Chase. Menlo Security is headquartered in Palo Alto, California. For more information, visit <https://www.menlosecurity.com>

**About VeloCloud, now part of VMware**

VeloCloud, now part of VMware simplifies branch WAN networking by automating deployment and improving performance over private, broadband Internet and LTE links for today’s increasingly distributed enterprises. VMware SD-WAN by VeloCloud includes: a choice of public, private or hybrid cloud network for enterprise-grade connection to cloud and enterprise applications; branch office enterprise appliances and optional data center appliances; software-defined control and automation; and virtual services delivery. For more information, visit [www.velocloud.com](http://www.velocloud.com)