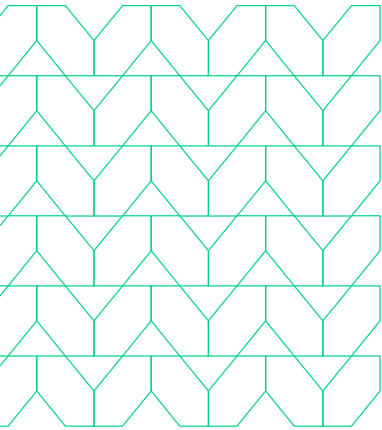# Securing federal agencies with Menlo Security's Zero Trust TIC 3.0 technology

For years, government agencies have struggled with cloud adoption strategies as a result of strict Trusted Internet Connection (TIC) policies and poor remote VPNs, which hindered their ability to grow with today's digital world.

Fast-forward to today, and organizations and users are relying on cloud technology and mobile devices to collaborate and share data at an unprecedented level. To catch up with the private sector's increasing adoption of mobile and cloud environments, the Office of Management and Budget (OMB), the Department of Homeland Security (DHS), the Cybersecurity and Infrastructure Security Agency (CISA), and the General Services Administration (GSA) have updated the TIC guidance to drive new security standards by leveraging recent advances in technology.

Guidance overview

The two primary techniques used by adversaries to infiltrate enterprises through these initial access points are drive-by compromise and phishing, according to the MITRE ATT&CK framework.
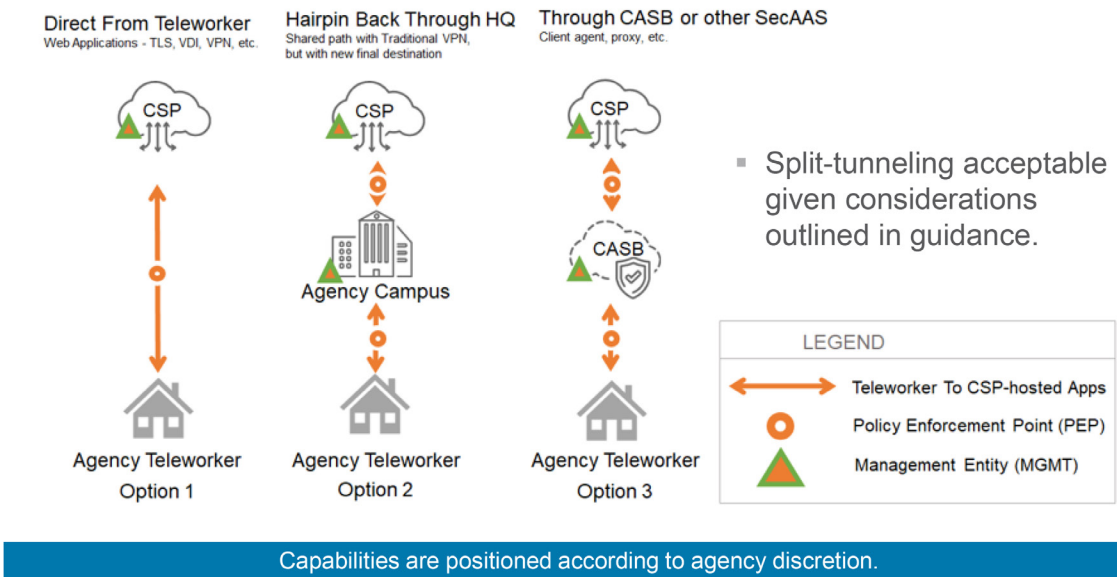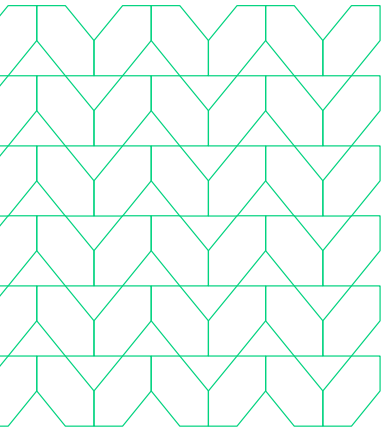

Figure 1: Approved TIC 3.0 architecture security patterns for implementation

TIC 1.0 and 2.0 focused primarily on securing the network perimeter of an agency by funneling all incoming and outgoing data through one access point. However, the use of VPNs to traffic data through main agency offices created latency for users and increased risk by exposing servers to potential bad actors. The new TIC 3.0 guidance provides a faster and more secure connection by using cloud security services that sit in line between remote users and agency applications. This allows federal agencies to steer away from the one-size-fits-all approach, and provides them with flexibility in designing their own networks or acquiring new technology solutions to minimize risk and improve user productivity.

Menlo Security provides security-first TIC 3.0 solutions

Federal agencies today need fast, reliable, and secure access to the tools and information they require to keep business running. As these agencies work to meet the modernization goals of shared services and mobile workforces, Menlo Security powers this shift by providing agencies with the control and visibility they require through a security-first, Zero Trust architecture, regardless of device or user location. Menlo Security's Cloud Security Platform powered by an Isolation Core™ is designed to meet the aggressive requirements of the TIC 3.0 security objectives by enabling agencies to better manage their traffic, protect traffic confidentiality, ensure service resiliency with next-generation technology, and ensure effective response and adaptation to newly discovered threats.
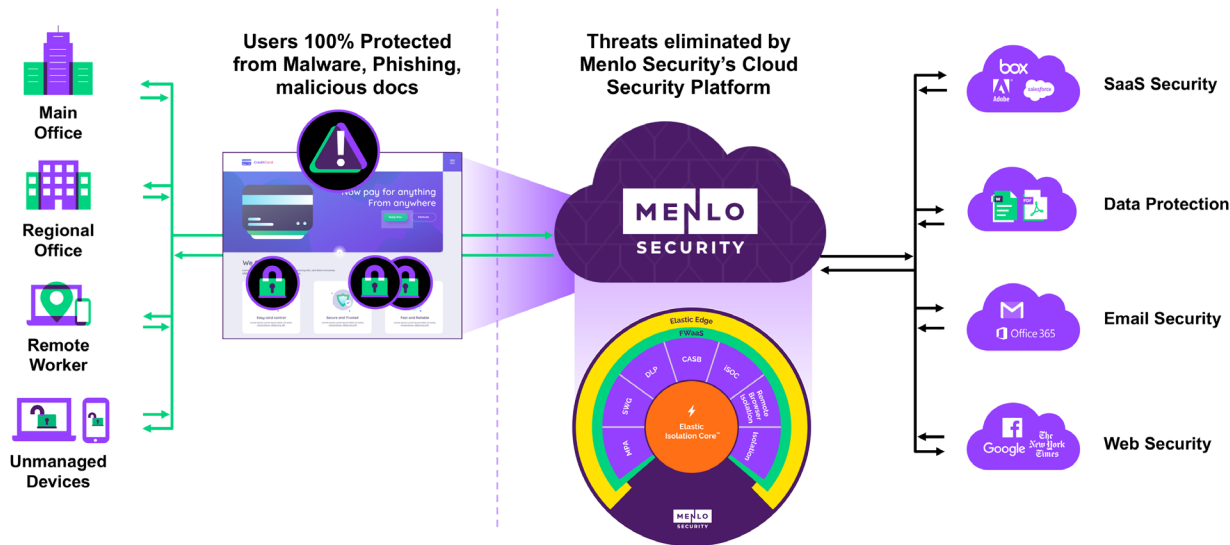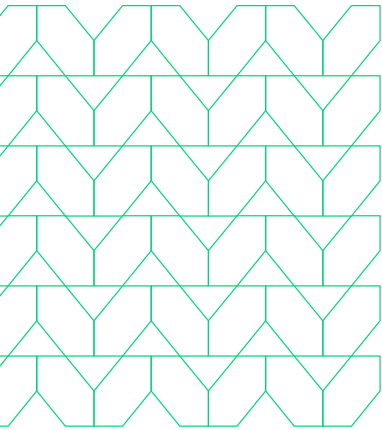

Figure 2: Menlo Security's Cloud Security Platform

Menlo's Cloud Security Platform gives agencies a single framework from which to deliver security and networking services through the cloud to connect distributed users, devices, branch offices, apps, and Software-as-a-Service (SaaS) platforms.

By establishing trust zones around individual endpoints and applying closer policy enforcement points (PEPs) to these trust zones, agencies can fit more in line with Zero Trust principles and provide their users and data with better automation, resilience, and protection for data in transit and at rest. This allows users to work productively without worrying about whether they are able to securely and seamlessly access the tools and information they need. Menlo Security completely eliminates threats from malware, fully protecting productivity with a one-of-a-kind, isolation-powered Secure Web Gateway (SWG). It's the only solution to deliver on the promise of SASE security — by providing the most secure Zero Trust approach to preventing malicious attacks, by making security invisible to end users while they work online, and by removing the operational burden for security teams. This ensures that agencies are able to securely connect the right user to the right application regardless of their location.

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About Menlo Security

Menlo Security enables organizations to eliminate threats and fully protect productivity with a one-of-a-kind, isolation-powered cloud security platform. It's the only solution to deliver on the promise of cloud security—by providing the most secure Zero Trust approach to preventing malicious attacks; by making security invisible to end users while they work online; and by removing the operational burden for security teams. Now organizations can offer a safe online experience, empowering users to work without worry while they keep the business moving forward.