



CHECK POINT + CISCO SD-WAN

SECURE CLOUD-DELIVERED SD-WAN

Cloud-adoption is transforming the traditional branch office network security model. Traffic from remote offices and remote users was backhauled in its entirety to the headquarters data center, to then be broken out into the Internet. As cloud SaaS, IaaS and PaaS applications and services grows, this centralized model incurs latency, jitter and packet loss penalties for remote offices and users. At the same time the increasing use of real-time collaboration applications increases MPLS bandwidth and costs. A more effective model to optimize branch office to cloud application performance is needed.

CHECK POINT CISCO SECURE SD-WAN SOLUTION

Now, there's a better option. Together Cisco and Check Point assure the performance and security of enterprise and cloud applications over the Internet and WAN while dramatically simplifying deployments and reducing costs. Cisco Software-Defined WAN (SD-WAN) brings enterprise-level manageability, performance, and reliability to branch offices. SD-WAN optimizes connectivity over both broadband Internet and private links to applications that reside in data centers while simplifying and centralizing branch network management.

Directly connecting branch offices to the cloud via a Local Internet Breakout reduces latency and improves the overall user experience. However, as cloud traffic is offloaded from the private WAN to local Internet connections, branch offices become susceptible to cyber-attacks. Check Point secures these links with the same advanced threat prevention available in Check Point on-premises security gateways.

Cisco SD-WAN Architecture

Cisco SD-WAN is a secure, cloud-scale architecture that is open, programmable and scalable. Through the Cisco SD-WAN vManage console, you can quickly establish an SD-WAN overlay fabric to connect data centers, branches, campuses, and colocation facilities to improve network speed, security, and efficiency.

As the world's leading networking company, Cisco defined the standard for routing. Cisco has a wide variety of physical and virtualized network service platforms to choose from, such as Viptela OS routers and IOS XE® SD-WAN routers like the Cisco 5000 Series Enterprise Network Compute System (ENCS 5000 platforms. By choosing Cisco SD-WAN, you gain the ability to manage certified trustworthy platforms while instantly deploying the right security in the right place, all from the Cisco vManage console.

SD-WAN ENABLED NETWORK SECURITY

Large organizations with thousands of small, geographically dispersed remote offices are faced with the challenge of securing their corporate network from attacks and monitoring or managing these offices in a simplified manner. Check Point and Cisco provide choice in a cost-effective, easy to maintain solution that is always up to date with the latest security.

Check Point Integrated Advanced Threat Prevention

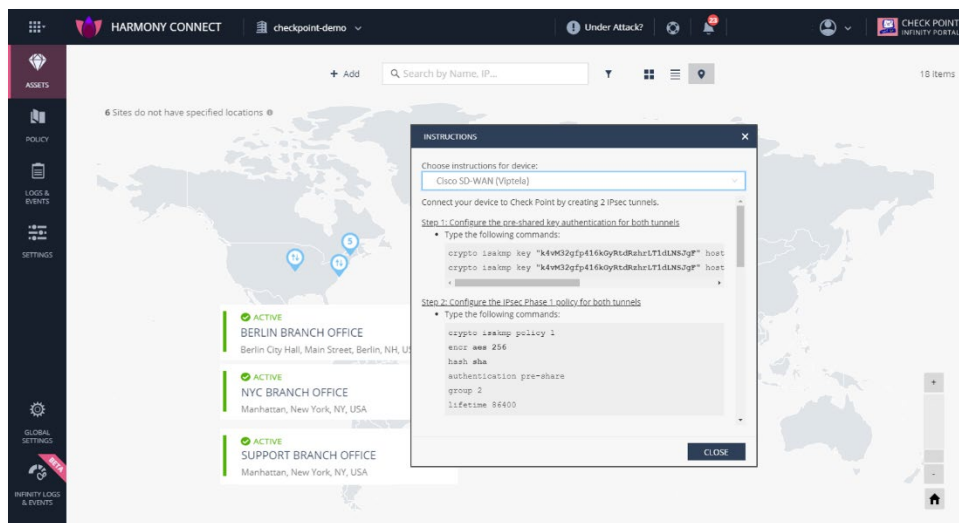
Check Point provides organizations of all sizes with integrated, advanced threat prevention, reducing complexity and lowering the total cost of ownership. Check Point protects SaaS, IaaS and now branch office assets from sophisticated threats with dynamic scalability, intelligent provisioning and consistent control across physical and virtual networks.

Unlike other solutions that only detect threats, Check Point also prevents threats. Check Point SandBlast Zero-Day Protection is a cloud-based sandboxing technology where files are quickly quarantined and inspected, running in a virtual sandbox to discover malicious behavior before they enter branch office networks. SandBlast detects malware at the exploit phase, even before hackers can apply evasion techniques attempting to bypass the sandbox. This innovative solution combines cloud-based CPU-level inspection and OS-level sandboxing to prevent infection from the most dangerous exploits, and zero-day and targeted attacks.

The Check Point solution also includes IPS, Ant-Bot, and Antivirus to protect from known threats, Application Control and URL Filtering to enforce safe web use, and HTTPS inspection to prevent threats inside encrypted HTTPS channels. Furthermore, Check Point is a fully consolidated and connected cyber security architecture protecting on premises, cloud and branch networks as well as endpoint and mobile devices from Advanced Persistent Threats. Threats identified on one device can be automatically propagated as an IoC (Indicator of Compromise) to protect branch, mobile and cloud-based assets from the same zero-day threat.

Security in the Cloud

Branches and remote offices of an organization can benefit from the optimized connectivity offered by Cisco SD-WAN from the remote site all the way to the cloud. Cisco connects remote offices directly to the Check Point Harmony Connect, where they are able to leverage Check Point's advanced threat prevention as a cloud-hosted service, protecting the network and their users from known and unknown threats. Network administrators can easily monitor and manage these sites centrally with the Cisco vManage console.



Access the Harmony Connect Portal from any browser

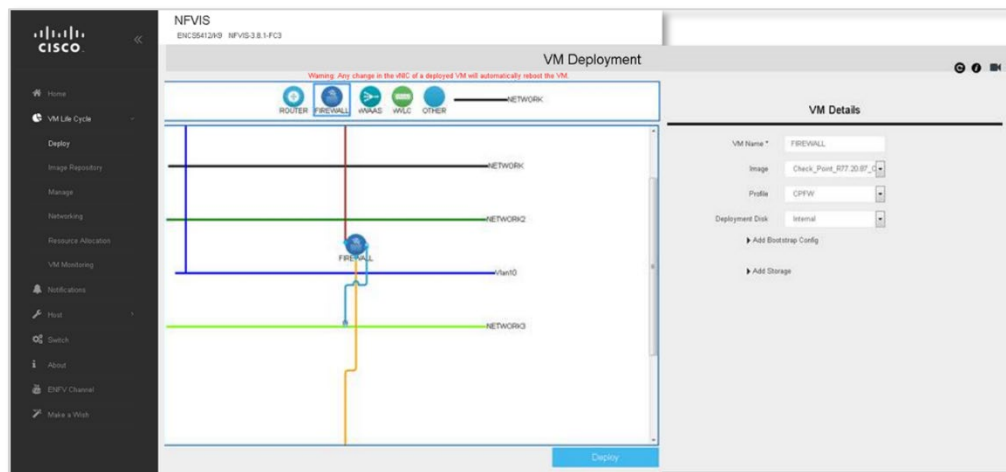
Harmony Connect doesn't burden IT staff with deploying or maintaining dedicated hardware and supports adding advanced threat prevention capabilities on top of existing Cisco SD-WAN deployments. With a simple and easy setup process, network traffic from the Cisco SD-WAN branch appliance is connected over a low latency IPsec or GRE tunnel to a primary cloud-hosted network security service at a near-by location. Dual IPsec or GRE connections provide redundancy. With cloud-hosted security, hardware or software updates are completely transparent, providing maintenance-free security for hundreds and thousands of physical devices, reducing overall CAPEX and OPEX costs.

Simplified central management provides an intuitive, simple on-boarding process, security policy configuration and monitoring. Powered by Check Point SmartEvent, Security Operations Center (SOC) staff see the most important threats with a single view across the entire infrastructure. Take control of security events with real-time forensic and event investigation, compliance and reporting. Respond to security incidents immediately, reducing the time spent remediating incidents.

Security on-premises in a Single Appliance

Many customers prefer to have control of their data or must comply with regulations such as GDPR. The Cisco Enterprise Network Compute System (ENCS) is a hybrid platform that combines the functionality of a traditional router and a traditional server with a smaller infrastructure footprint. Cisco ENCS is a purpose-built compute platform optimized to run certified compatible and interoperable VNFs.

Hosting a Check Point Quantum Edge virtual machine (VM) on the Cisco ENCS branch appliances provides customers with granular control of their security and data. With Cisco vManage, the Quantum Edge virtual machine is centrally provisioned to the ENCS appliances, avoiding truck rolls, additional OPEX costs and the inflexibility associated with deploying and managing a stack of physical appliances. Quantum Edge is a lightweight virtual image of the proven Check Point Branch Office Security Gateway that has been available since 2013. The small footprint of Quantum Edge requires a minimum of only 1 GB of memory, 1 GB of disk storage and 1 CPU core.



Provision Quantum Edge from the Cisco vManage console

SUMMARY

Together, the integrated SD-WAN and Advanced Threat Prevention platform provides secure and optimized WAN connectivity over Internet links and WAN connections. By dramatically simplifying deployments and reducing costs, Check Point and Cisco provide enterprises with an affordable and secure remote branch office security solution.

About Check Point

Check Point Software Technologies Ltd. (www.checkpoint.com) is a leading provider of cyber security solutions to governments and corporate enterprises globally. Its solutions protect customers from cyber-attacks with an industry leading catch rate of malware, ransomware and other types of attacks. Check Point offers a multilevel security architecture that defends enterprises' cloud, network and mobile device held information, plus the most comprehensive and intuitive one point of control security management system. Check Point protects over 100,000 organizations of all sizes.

About Cisco

Cisco (NASDAQ: CSCO) is the worldwide technology leader that has been making the Internet work since 1984. Our people, products, and partners help society securely connect and seize tomorrow's digital opportunity today. For more information, visit www.Cisco.com.