Check Point + Citrix SD-WAN
SECURE CLOUD-DELIVERED SD-WAN

As more applications shift to the cloud, business users need secure access to these applications to effectively do their jobs. From virtual meetings to file-sharing to collaboration through tools like Microsoft Teams, Slack, Zoom, ShareFile and OneDrive, including voice and video traffic, they require consistent, high-quality bandwidth, all the time. For IT organizations that are managing remote and branch offices, it can be a challenge to accommodate these needs in a way that's efficient, secure, and cost effective. Users are consuming more Wide-Area Network (WAN) bandwidth than ever, leaving them with a user experience that is all too often suboptimal. Traditional WAN architectures weren't designed to support cloud and SaaS applications. Cloud and SaaS traffic now congests the WAN traversing expensive leased lines that drive up costs or unreliable public Internet lines resulting in frustrated users.

CHECK POINT CITRIX SD-WAN SOLUTION

Now, there's a better option. Software-Defined WAN (SD-WAN) enables enterprises to provide optimized connectivity over both broadband Internet and private links to applications that reside in data centers, IaaS/PaaS clouds, SaaS and any hybrid scenario while simplifying and centralizing branch management. SD-WAN is critical for today's hybrid cloud environments because it brings enterprise-level manageability, performance, and reliability across branch offices.

Directly connecting branch offices to the cloud via a Local Internet Breakout reduces latency and improves the overall user experience. However, as you look to offload cloud traffic from your private WAN to local Internet connections, you become susceptible to cyber-attacks. Check Point secures these links with the same advanced threat prevention available in Check Point on-premises security gateways. Together Citrix and Check Point assure the performance and security of enterprise and cloud applications over the Internet and hybrid-WAN while dramatically simplifying deployments and reducing costs.

Citrix SD-WAN

Citrix SD-WAN is a next-generation WAN edge solution that provides an unparalleled experience for mission- and business-critical applications delivered from any location with comprehensive security that protects users, applications, and data across the branch, network, and cloud.

With this, organizations can quickly add new sites, rollout new applications and monitor reliable connections to the cloud using automation, policy-based enforcement, zero-touch deployment and intelligent reporting.

Citrix SD-WAN offers:
- The best application performance – detection, optimization for 4,500+ apps through DPI and APIs (Citrix, Microsoft, SaaS, cloud, virtual), dual-ended QoS, packet-based traffic steering, packet duplication, and sub-second link failover.
- Comprehensive security options – built-in, ICSA-certified stateful firewall; partner next-gen firewall VNF; partner secure web gateway with automation.
- Cloud choice – AWS, Azure, GCP, Equinix. Citrix SD-WAN Cloud Direct service offers resilience, performance for SaaS apps with connection through an enterprise-grade, Layer 2 private network.

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.

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/managing these offices in a simplified manner. They need to provide the same level of protection across all offices irrespective of whether they are inside or outside the confines of the corporate network perimeter. A cost-effective, easy to maintain solution that is always up to date with the latest security is needed.

Security in the Cloud	Security On-Premises
Citrix SD-WAN	Citrix SD-WAN 1100 Platform
Check Point CloudGuard Connect	Check Point CloudGuard Edge

SECURITY IN THE CLOUD

Branches and remote offices of an organization can benefit from the optimized connectivity offered by Citrix SD-WAN from the remote site all the way to the cloud. Citrix SD-WAN connects remote offices directly to the Check Point CloudGuard 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 Citrix SD-WAN central management.

Citrix SD-WAN and CloudGuard Connect
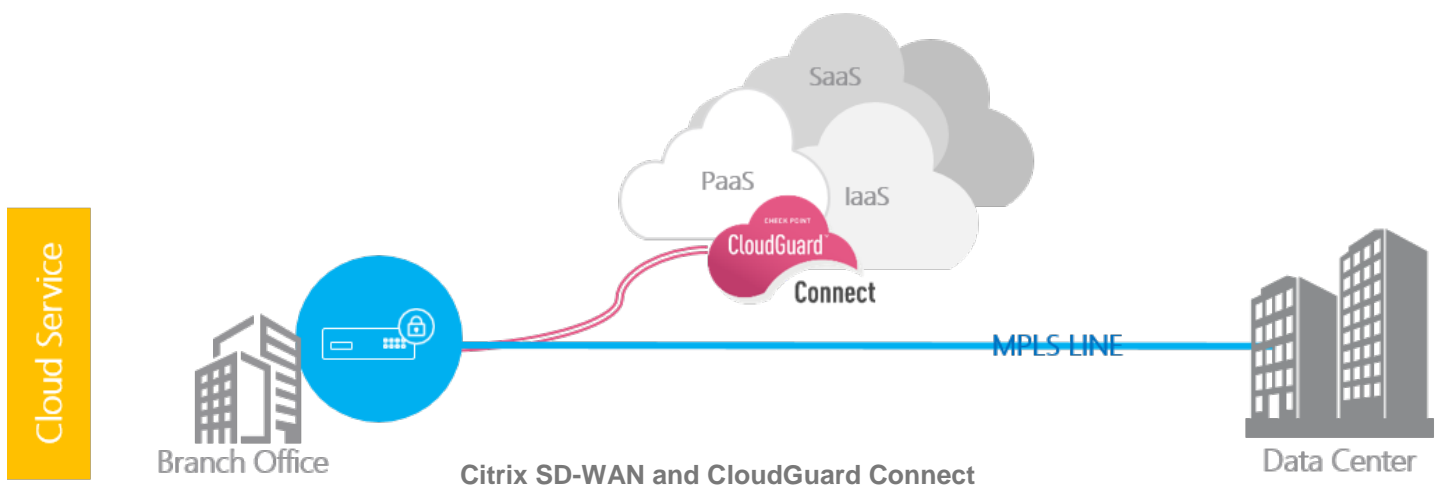
CloudGuard Connect doesn't burden IT staff with deploying or maintaining dedicated hardware and supports adding advanced threat prevention capabilities on top of existing Citrix SD-WAN deployments. With a simple and easy setup process, network traffic from the Citrix SD-WAN branch appliance is connected 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 Citrix SD-WAN 1100 is an SDN/NFV-ready platform powered by eight-core CPUs and designed to host various virtualized network functions (VNFs).

Citrix SD-WAN 1100

Hosting a Check Point CloudGuard Edge virtual machine (VM) on the Citrix SD-WAN 1100 branch appliance provides customers with granular control of their security and data. Service Providers and large enterprise customers can easily deploy CloudGuard Edge and manage security from corporate headquarters.

With Citrix SD-WAN management tools, the CloudGuard Edge virtual machine is centrally provisioned to the SD-WAN appliances in the deployment, avoiding truck rolls, additional OPEX costs and the inflexibility associated with deploying and managing a stack of physical appliances. CloudGuard 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 CloudGuard Edge requires only 1 GB of memory, 1 GB of disk storage and 1 CPU core.

Citrix SD-WAN 1100 and CloudGuard Edge
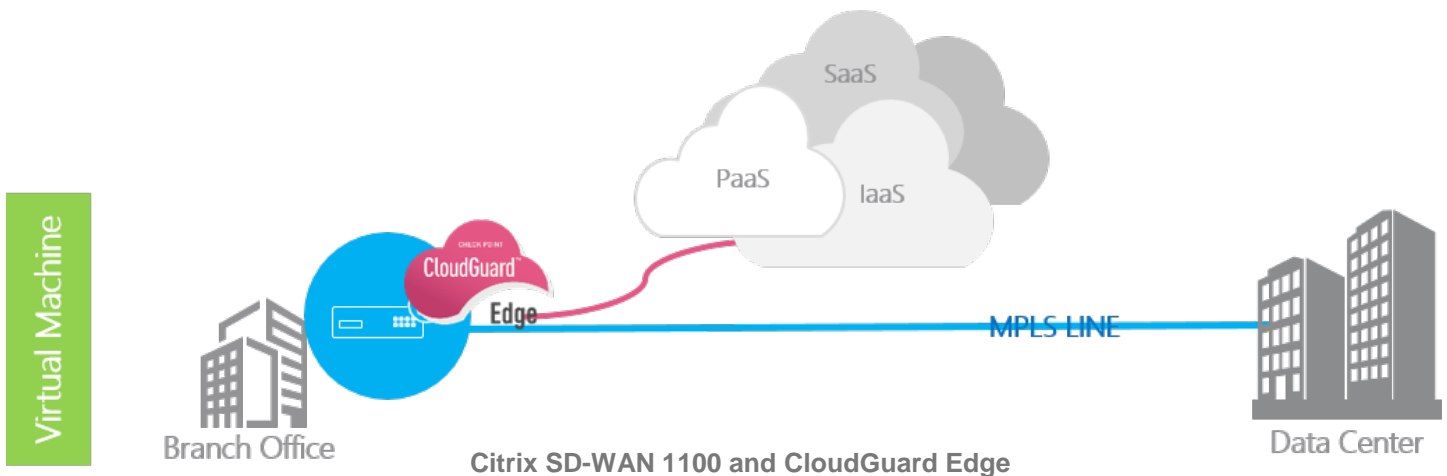
CENTRAL SECURITY PROVISIONING AND MANAGEMENT

CloudGuard Edge security gateways are deployed with one-click provisioning using Citrix SD-WAN central management. This tight integration reduces deployment time, effort, and costs. When CloudGuard Edge is deployed as VMs on Citrix SD-WAN branch appliances, a consolidated edge device with next-generation firewall provides a single form factor WAN Edge solution that you can monitor with Check Point Security Management. Start protecting your network and data while meeting compliance requirements from a single device.

When Citrix SD-WAN devices are connected to a Check Point cloud-hosted CloudGuard Connect service, each site is set up in the Connect management portal within 5 minutes. Configure the setup of redundant IPsec or GRE tunnels in Citrix SD-WAN central management to a local cloud-hosted security service, and your branch offices are protected from advanced and zero-day threats with the Check Point CloudGuard Connect service.

SD-WAN Central Management
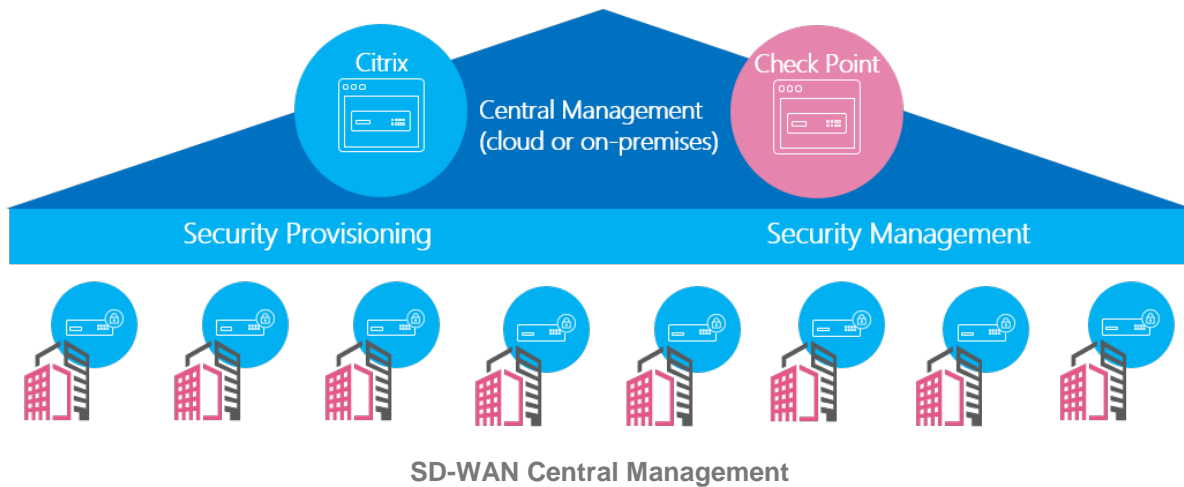
SUMMARY

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

About Check Point

Check Point Software Technologies Ltd. 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. For more information, visit www.checkpoint.com.

About Citrix

Citrix SD-WAN is a next-generation WAN Edge solution delivering flexible, automated, secure connectivity and performance for cloud and virtual applications to ensure an always-on workspace. Quickly add new sites, rollout new applications and monitor reliable connections to the cloud using automation, policy-based enforcement, zero-touch deployment and intelligent reporting. SD-WAN provides an unparalleled experience for mission- and business-critical applications delivered from any location with comprehensive security that protects users, applications, and data across the branch, network, and cloud. For more information, visit www.citrix.com/sdwan.