

PALO ALTO NETWORKS AND CITRIX SYSTEMS

SD-WAN

Benefits of the Integration

- Integration of Palo Alto Networks VM-Series Virtualized Next-Generation Firewalls with the Citrix SD-WAN 1100 appliance provides consolidation of SD-WAN and advanced security in a single branch device while maintaining separation of networking and security policies.
- Next-Generation Firewall features combine with Citrix SD-WAN path control and optimization to protect branch locations from multivector threats and allow safe use of the internet as a WAN path.

The Challenge

Software-defined wide area networking (SD-WAN) is synonymous with ubiquitous connectivity, availability, and exceptional user experience, wherever applications and workloads reside. SD-WAN greatly benefits organizations looking for more flexibility to connect remote networks over different WAN services while optimizing simplicity, automation, and cost. When it comes to SD-WAN security, though, companies too often approach it as a separate project.

It's undeniable: threats are rising exponentially. Breaches not only impact productivity but also adversely affect brand image. The internet and cloud breakout from the branch directly expose branches as key points of entry for threats.

Citrix SD-WAN 1100

Citrix's SD-WAN 1100 appliance is a high-performance appliance rated for 1 Gbps of throughput, purpose-built for large enterprise branches. Under the hood, it's an SDN/NFV-ready platform powered by eight-core CPUs and designed to host various virtualized network functions (VNFs).

Palo Alto Networks

The Palo Alto Networks Security Operating Platform® prevents successful cyberattacks through intelligent automation. It combines network and endpoint security with threat intelligence and accurate analytics to help streamline routine tasks, automate protection, and prevent cyber breaches. Tight integrations across the platform and with ecosystem partners deliver consistent security across clouds, networks, and mobile devices, natively providing the right capabilities at the right place across all stages of the attack lifecycle.

Palo Alto Networks and Citrix Systems

Citrix's approach to SD-WAN security focuses on flexibility and efficacy, so Citrix SD-WAN integrates with cloud-based and on-site security offerings to provide choice when it comes to deployment models. Citrix has integrated with Palo Alto Networks VM-Series VM-50 and VM-100 models, the first Virtualized Next-Generation Firewalls to be hosted on Citrix SD-WAN 1100, for a best-of-breed SD-WAN and security offering. Citrix also provides automated onboarding for secure, direct connectivity via Prisma™ Access, a cloud connectivity and security service by Palo Alto Networks.

The VM-50 and VM-100 are full-featured Virtualized Next-Generation Firewalls. These virtual machines are known for high-functioning consolidation that shares the results of context-based remedial actions between its security functions. The combination of the Citrix SD-WAN 1100 and the VM-Series represents an advanced SD-WAN and security offering optimized to deliver high performance and App-ID-enabled firewall in a compact footprint.

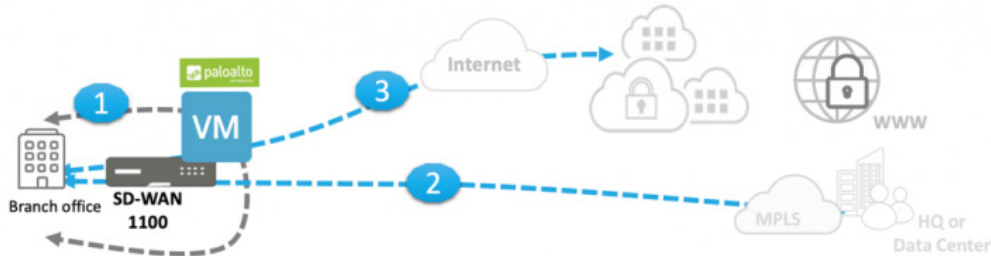


Figure 1: VM-Series firewalls inspect LAN-to-LAN, direct internet access (DIA), and LAN-to-WAN traffic for complete protection

The integrated offering provides complete protection, as shown in Figure 1:

1. The VM-Series inspects all LAN-to-LAN traffic before forwarding. When it detects an infected user, device, or application, the VM-Series quarantines the infected host until the threat source is neutralized.
2. The VM-Series scrubs direct internet-bound traffic clean. Because the firewall is locally hosted in the WAN edge, users benefit from minimal latency, higher security efficacy, and an enhanced overall quality of experience.
3. Data center-bound traffic can be steered for local inspection or by the central full-stack firewall.

You can continue to use Palo Alto Networks Panorama™ network security management to define consistent policies across a global network of physical and virtual appliances, including the VM-Series hosted on the Citrix SD-WAN 1100. To make the integrated offering simple and easy to consume, Citrix has developed an automated workflow via SD-WAN management that takes care of provisioning, bringing up, and managing the lifecycle of the VM-Series.

Use Case No. 1: Local Internet Breakout at the Branch with Ease

Via granular policies on a Citrix SD-WAN 1100 appliance, redirect internet-bound traffic through hosted VM-Series firewalls before it leaves the branch via the local internet path.

Use Case No. 2: Block Threats Right at the Branch with Local Policies Prior to Backhauling Traffic to the Data Center

The VM-Series brings all the benefits of an on-premises Next-Generation Firewall to the branch while allowing for branch device consolidation when running on the Citrix SD-WAN 1100 appliance. Local policies can be configured and centrally managed by Panorama and enforced by the VM-Series running on Citrix SD-WAN 1100 appliances.

Use Case No. 3: Zone-Based Segmentation at the Branch

The Citrix SD-WAN 1100 and the VM-Series offer the benefits of a consolidated WAN edge with advanced SD-WAN and Next-Generation Firewall functionality in a single platform. With unique security policy and inspection per traffic segment through zone-based security, you can block lateral propagation of threats and enforce isolation of traffic flows with differing security requirements.

About Citrix Systems

Citrix SD-WAN is a next-generation WAN Edge solution delivering flexible, automated, secure connectivity to improve performance for cloud and virtual applications ensuring an always-on workspace. It helps modern businesses keep up with the pace of digital and succeed in their transformation by offering:

- An exceptional application experience for SaaS, cloud, and virtual applications
- Comprehensive security with protection for applications, the network, and cloud
- A choice of flexible deployment options to automate connectivity to the cloud

Find out more about Citrix SD-WAN, click here: <https://www.citrix.com/products/citrix-sd-wan/>

About Palo Alto Networks

Palo Alto Networks, the global cybersecurity leader, is shaping the cloud-centric future with technology that is transforming the way people and organizations operate. Our mission is to be the cybersecurity partner of choice, protecting our digital way of life. We help address the world's greatest security challenges with continuous innovation that seizes the latest breakthroughs in artificial intelligence, analytics, automation, and orchestration. By delivering an integrated platform and empowering a growing ecosystem of partners, we are at the forefront of protecting tens of thousands of organizations across clouds, networks, and mobile devices. Our vision is a world where each day is safer and more secure than the one before. For more information, visit www.paloaltonetworks.com.



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