# VMware SD-WAN with Zscaler

## Performance and security without complexity

Together VMware SD-WAN and Zscaler deliver an integrated secure SD-WAN solution optimizing performance for cloud applications, while providing assured security, scalability, and flexibility to meet the needs of today's enterprises

As cloud-delivered applications are becoming commonplace and dispersed workforce a norm, the old approach of backhauling traffic over MPLS to a centralized data center is inefficient as it is irrelevant. This fixed approach introduces unnecessary complexity and latency that negatively impacts application performance and hence user experience. To support a cloud transition with a desired user experience, enterprise network architects are reevaluating the design of their WAN architectures to route Internet traffic locally, and to take advantage of inexpensive but omnipresent broadband Internet services, often turning to Software-Defined Wide Area Networking (SD-WAN).

Cloud-delivered VMware SD-WAN™ by VeloCloud® simplifies how traffic is steered and provides bandwidth optimization for the branch without the complexity of MPLS. It enables direct access to applications deployed on- or off-cloud for users through a distributed network of highly available VMware SD-WAN Gateways and VMware SD-WAN Edges. The VMware SD-WAN orchestrator acts as a brain for the network and provides a single pane of glass view for monitoring and management.

VMware SD-WAN with Dynamic Multi-path Optimization (DMPO) decides how traffic is steered on a per packet basis and remediates the degradation in link quality, improving application performance. VMware SD-WAN is a transport-agnostic overlay that simplifies how traffic is steered and logically expands bandwidth to improve delivery, providing capacity for mission-critical application needs. The highly available and distributed VMware SD-WAN gateways provide the closest handoffs to the cloud service tenant location, delivering near end-to-end optimized connectivity.
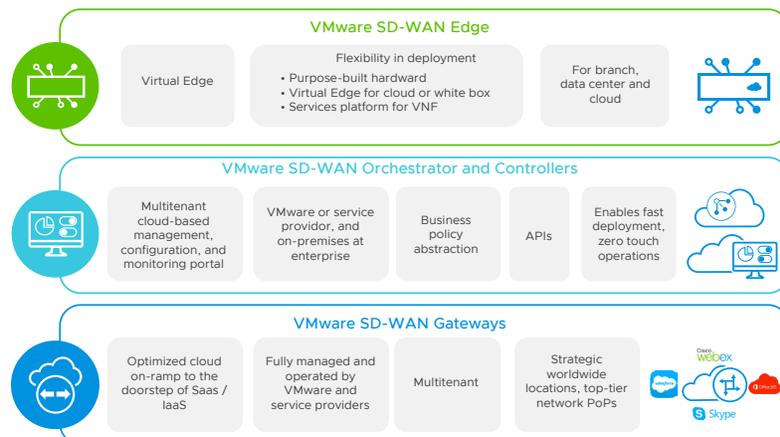


FIGURE 1: VMware SD-WAN Components

## KEY HIGHLIGHTS

**OPTIMAL PERFORMANCE**

• Desired performance with policy-based categorization and prioritization among over 3000 applications

• Security as a service—without impacting performance

• Enhanced quality of experience with real time monitoring and link remediation

**ASSURED SECURITY**

• Entire security stack as-a-service at scale, including SSL inspection

• Policies that follow the user to provide identical protection for users whenever they connect

• Eliminating the need to deploy and manage security appliance at the branch

**SIMPLICITY AND SCALE**

• Reduced cost and complexity from traditional network and security architectures

• Zero-touch provisioning to enable simultaneous deployments, in just a few clicks

• Centralized monitoring and management

# Secure SD-WAN by Zscaler and VMware

While cloud-delivered applications offer a myriad of benefits, including agility, accessibility, economy of scale, and ease of use, they multiply the risk of cyberattacks and performance degradation due to the very benefits of the delivery model. Security and networking are particularly challenging to manage with distributed applications and usually limited IT resources. Considering these challenges, a fundamental shift in your approach is required to take integrated cloud network and security into account when migrating to cloud infrastructure.

Zscaler delivers comprehensive cloud security and enables inspection of all traffic at scale—all ports and protocols, including native SSL inspection, URL filtering, full proxy content inspection and access control, advanced firewall, intrusion prevention, advanced threat prevention, sandboxing, CASB, and DLP. Together, VMware SD-WAN and Zscaler deliver the best application performance and security with:

• Direct-to-cloud connectivity to eliminate backhauling and reduce latency

• Cloud-delivered security, so users in all locations get identical protection—including native SSL inspection, access controls, advanced threat protection, and data loss prevention

• Flexible deployment to simplify branch IT operations while enabling centralized policy and WAN management

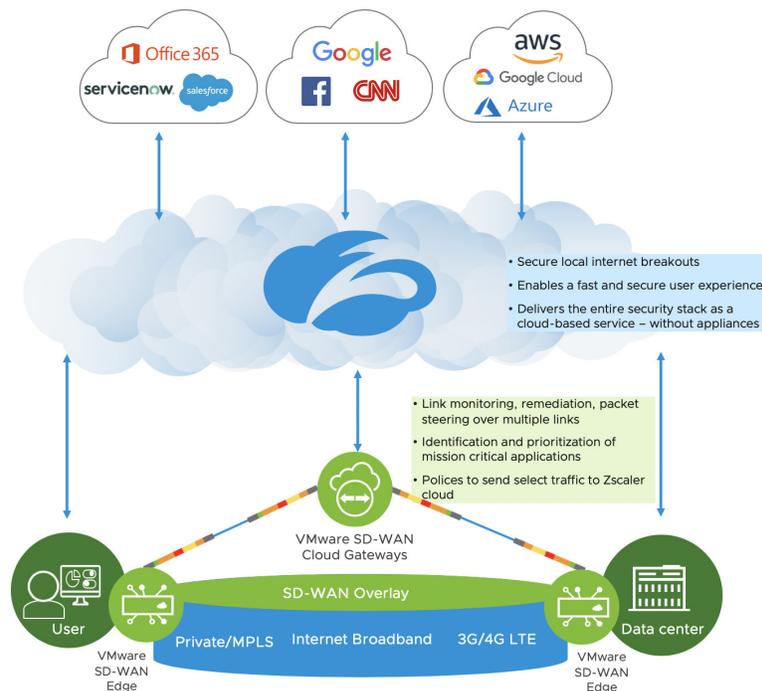• Zero-touch provisioning to enable rapid deployment at scale, ensuring security and performance from day one



**FIGURE 2:** VMware and Zscaler Delivering Secure SD-WAN

## ABOUT ZSCALER

Zscaler enables the world's leading organizations to securely transform their networks and applications for a mobile and cloud-first world. Its flagship services, Zscaler Internet Access™ and Zscaler Private Access™, create fast, secure connections between users and applications, regardless of device, location, or network. Zscaler services are 100% cloud delivered and offer the simplicity, enhanced security, and improved user experience that traditional appliances or hybrid solutions are unable to match. Used in more than 185 countries, Zscaler operates a multitenant, distributed cloud security platform that protects thousands of customers from cyberattacks and data loss.
Learn more at *zscaler.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*

With Zscaler and VMware SD-WAN integrated, it becomes much easier to migrate from a hub-and-spoke to optimized direct-to-cloud architecture without compromising performance and security. With VMware SD-WAN orchestrator, administrators have the option to steer traffic from VMware SD-WAN Edges directly to Zscaler Cloud Security Service or via VMware SD-WAN gateways. Both routes are provisioned with IPsec tunnels in a centralized manner.

The strategically deployed VMware SD-WAN Gateways offer the added benefit of real-time monitoring, packet steering and remediation on the link between user location and these gateways, which then hand off the traffic to either Zscaler tenant locations or to cloud service locations. The combined Zscaler and VMware SD-WAN solution delivers a secure and scalable SD-WAN, connecting branches to the Internet while maintaining the desired user experience.

While VMware SD-WAN offers a WAN-agnostic overlay to simplify and optimize site connectivity to applications, Zscaler offers comprehensive security to user traffic. The joint VMware SD-WAN and Zscaler integration enables organizations to easily scale and deploy access and security policies across a large number of locations from a single console with a few clicks. Together, Zscaler and VMware SD-WAN help organizations simplify IT operations, eliminate unnecessary backhauling, and minimize security risks while optimizing application connectivity and performance at scale.