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CISCO

The bridge to possible

Cisco Catalyst SD-WAN with AWS Cloud WAN

Solution overview

Automate a global network and extend SD-WAN fabric across the AWS Cloud with Cisco Catalyst SD-WAN

Cisco and AWS have co-innovated to create a unique, dynamic WAN service that allows building of a global network using automation for intuitive network management and a central policy framework for advanced security. The Cisco and AWS integration allows you to traverse the AWS global backbone to access workloads from anywhere, provide site-to-site communication, and allow interregional workload connectivity. Cisco SD-WAN with AWS Cloud WAN delivers a secure, flexible, and highly available middle-mile leveraging the global AWS backbone. The joint networking solution enables simplified management, on-demand deployment, and optimized performance.
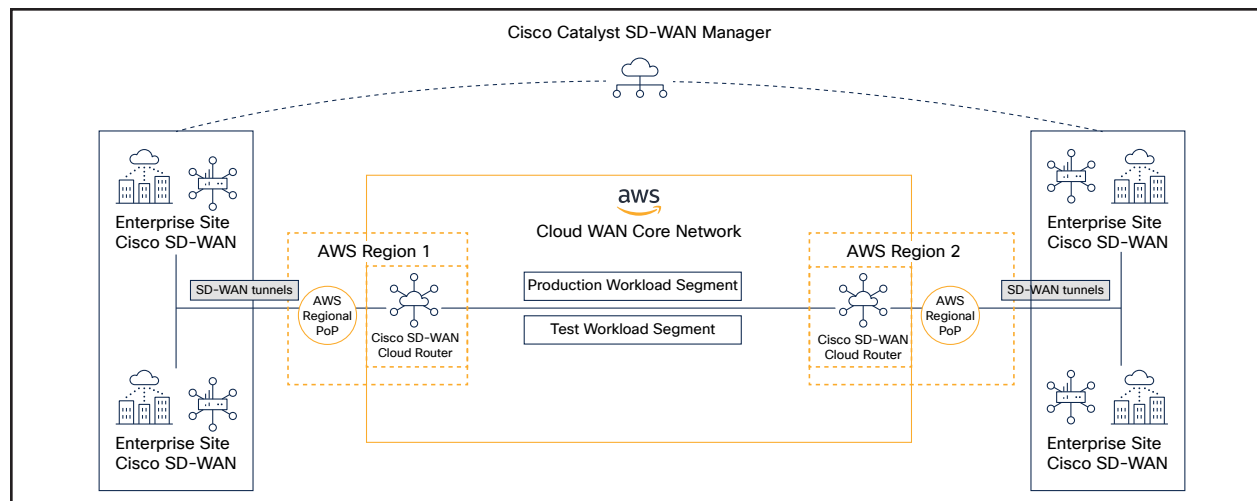
Introduction

Accelerate cloud transformation

The journey to cloud networking can be complex when dealing with multiple clouds and managing access to cloud workloads. Organizational networks have evolved into a complex mesh of users, data, and apps spread geographically, on-premises and in the cloud. Trying to balance connectivity, performance, and security in distributed network architectures increases complexity. Cisco and AWS have partnered to help IT teams simplify their cloud journeys. Cisco Catalyst™ SD-WAN with AWS Cloud WAN helps by automating access to workloads across the AWS global cloud network and interconnecting on-premises and cloud regions.

Figure 1.   Cisco Catalyst SD-WAN and AWS Cloud WAN

Use cases

Site to AWS Cloud: Automate Cisco Catalyst SD-WAN fabric extension to access AWS workloads in any region, keeping the control with enterprise IT.

Cloud region to cloud region: Leverage segmentation policies to allow AWS workloads in different regions to communicate securely.

Site to site: Simplify SD-WAN provisioning for regional site aggregation and optimized site-to-site connectivity using AWS's global cloud network as the middle mile.

How do you deploy Cisco Catalyst SD-WAN with AWS Cloud WAN?

This solution can be deployed using the Cisco Cloud OnRamp for Multicloud feature in Cisco Catalyst SD-WAN Manager. **Watch the demo**.

AWS Cloud WAN offers a global WAN service across AWS cloud regions. Cisco Catalyst SD-WAN's management portal, Cisco Catalyst SD-WAN Manager, uses a simple workflow to:

1. Orchestrate the AWS Cloud WAN infrastructure and the on-ramp into local AWS points of presence

2. Extend SD-WAN tunnels over the AWS Cloud WAN infrastructure, and

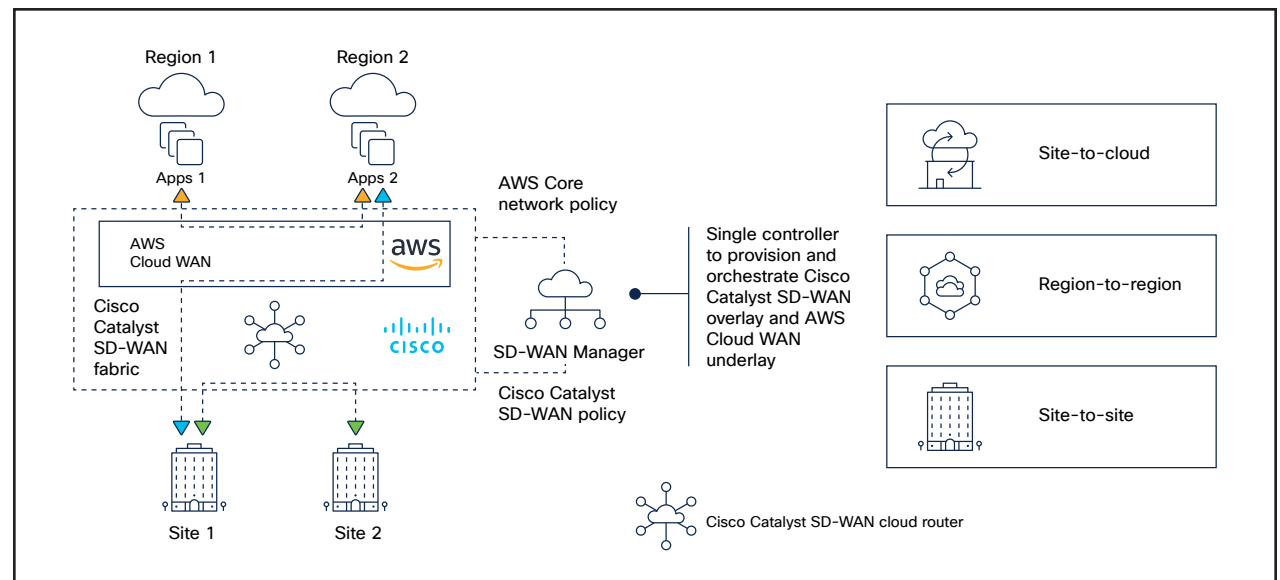3. Manage the core network policy for AWS Cloud WAN

Figure 2. Use cases for Cisco Catalyst SD-WAN with AWS Cloud WAN

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Learn more

- **Cisco Catalyst SD-WAN with AWS Cloud WAN FAQ.**
- **Cisco Catalyst SD-WAN with AWS Cloud WAN webinar**.
- **Cisco Catalyst SD-WAN with AWS Cloud WAN podcast**.
- **Cisco SD-WAN Cloud OnRamp**.
- **AWS Cloud WAN**.

Key benefits

- **Secure and resilient cloud access:** Cisco Catalyst SD-WAN with AWS Cloud WAN delivers secure cloud and middle-mile networking with end-to-end encryption over the AWS private backbone and common segmentation applied across global site-to-site, site-to-cloud, and cloud-to-cloud environments.

- **Simplified IT:** Remove operational complexity and deploy a global network on demand in minutes. The Cisco and AWS joint solution simplifies management and operations with full network stack automation, centralized provisioning, and orchestration via Cisco Catalyst SD-WAN Manager.

- **Increased performance and visibility:** The integration delivers a high-performance, dynamic SD-WAN fabric along with improved application performance through a guaranteed service-level agreement and consistent uptime of 99.99%* across a global network, with monitoring capabilities for the underlay as well as overlay.

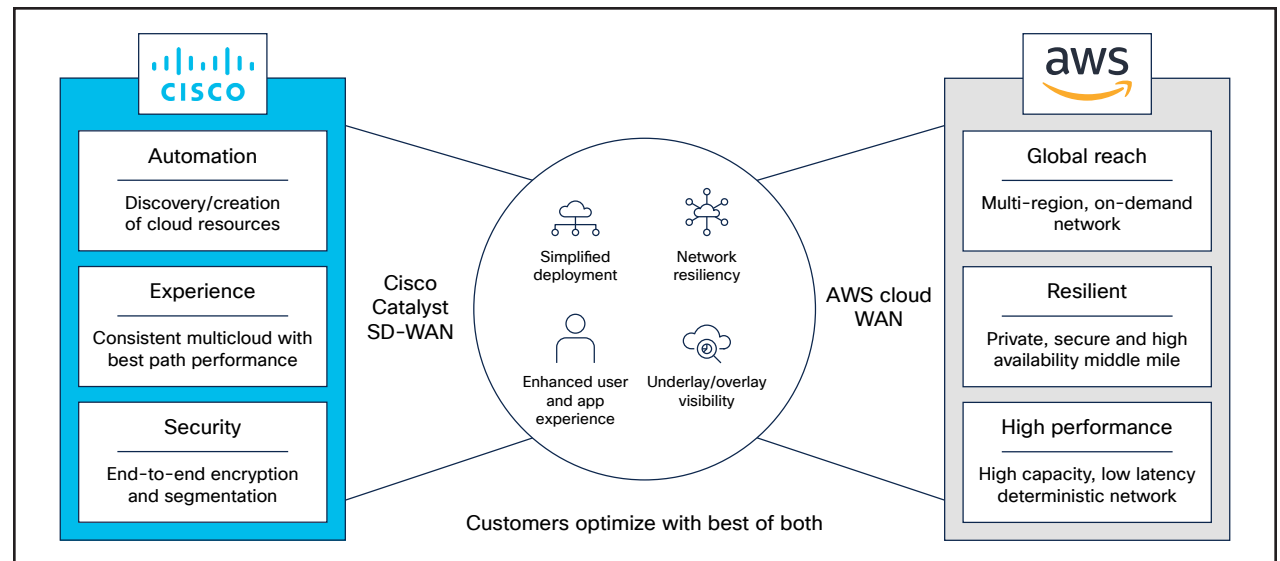* For multi-availability zone (multi-AZ) deployments – **AWS Cloud WAN Service Level Agreement**.

Figure 3.   Unified value of Cisco Catalyst SD-WAN with AWS Cloud WAN