Meraki

5 Ways to Use Cisco Meraki vMX on AWS

The fastest, most efficient way to scale secure and optimized cloud experiences, everywhere

Hello from Cisco Meraki. We're excited that you're ready to simplify your disaggregated services into an advanced, Meraki SD-WAN-powered hybrid cloud. The Cisco Meraki vMX is the fastest and simplest way to scale SD-WAN to your hybrid cloud architecture, no matter how many branches or workloads you're running.

How to use this guide

In this guide, we'll walk through ways to use the vMX in your Amazon Web Services (AWS) environment.

Use this guide to brainstorm ways to get the most out of your hybrid cloud. We encourage you to experiment, inquire, and discuss with us.

We're confident you'll find this guide helpful in connecting all of your multimodal services together under a single SD-WAN fabric.

What we'll cover

Site-to-cloud connectivity
On-premises and public cloud.

Region-to-region connectivity
Unify services across multiple cloud regions.

Remote worker-to-cloud connectivity
Keep remote workers securely connected to critical services and infrastructure.

Cloud-to-cloud connectivity
Connect your AWS services to those from other cloud service providers.

Redundancy in the cloud
Stay connected even when something goes wrong.

Connect with vMX users

1. Site-to-cloud connectivity.

Connect on-premises services (private cloud) to AWS public cloud services with Cisco Meraki vMX.

Eliminate the distinction between on-premises and public cloud services

One of the best ways to capitalize on the scale afforded by the cloud-first design of the vMX is by connecting on-premises services—often referred to as your private cloud—to AWS, where you would spin up a virtual private cloud (VPC).

This lets you convert a disaggregated, multimodal technology stack into a single, unified, Meraki-powered hybrid cloud.

Optimal performance

Use SD-WAN to optimize traffic across resources.

Improved user experience

Help your teammates securely access the services they need, no matter where they are.

Scalability

Connect up to 750 physical sites to AWS using a single vMX.

Try the vMX for free

2. Region-to-region connectivity.

Connect services spanning multiple AWS cloud regions together with Cisco Meraki vMX.

Run common data and services across multiple cloud regions

The vMX offers the ability to connect and manage services across multiple AWS cloud regions.

Deeply integrated with AWS Transit Gateway and AWS Cloud WAN, you're always connected no matter where your services are. You can even build advanced systems that allow teammates in international locations to access secure resources in the cloud region closest to them.

Ease of deployment

Take advantage of automations such as quick-starts and AWS Lambda, alongside unified Meraki platform management.

Better performance

Establish services in AWS regions closest to your in-region users.

Cost-effective

Use the scalable AWS wide area network infrastructure over costly alternatives.

Download the vMX on AWS

3. Remote worker-to-cloud connectivity.

Help remote workers get access to both on-premises and cloud resources with a single VPN solution spanning your entire wide area network.

Keep remote workers securely connected to your services

Hybrid work is here to stay, and Cisco Meraki has designed the vMX to be both flexible and scalable. As such, workers only need one client VPN (like Cisco Secure Client) to securely connect to your organization's cloud or on-premises networks to access critical resources.

Learn more about how this is achieved with Cisco Secure Client

Centralized management

Ensure a unified approach to managing secure remote access.

Consistency

Create a consistent, easy-to-manage experience for all of your employees.

Improved-support

Better coordination and troubleshooting for faster time to resolution.

View the vMX datasheet

4. Cloud-to-cloud connectivity.

Connect your services on AWS to those on other cloud service providers' platforms.

Connect AWS to other cloud service providers

It's common for businesses to run services on different cloud platforms, though this creates management and operational challenges.

With the Cisco Meraki vMX, you can connect your AWS services with those running on other cloud platforms to take advantage of the unique benefits that each cloud service provider offers, particularly with their offerings and cloud regions.

Cloud platform diversity

Take advantage of flexibility, cost savings, and diversified risk management.

Access to broader innovation

Capitalize on the unique strengths and offerings provided by all major cloud service providers.

Deploy based on regional strength

Run specific services on cloud service providers with cloud regions located close to your branches.

Check out vMX on AWS technical documentation

5. Redundancy in the cloud with vMX.

Establish a high-availability design to ensure high uptime in case failures occurs.

Mitigate unforeseen outages

Design your Meraki-powered hybrid cloud to remain operating even when unforeseen circumstances such as outages occur.

The Cisco Meraki vMX will automatically route from redundant active services when one part of the network fails, ensuring greater reliability, increased resiliency against loss or disruption, and long-term cost savings with less overall downtime.

High availability

Ensure your services remain active even during unforeseen circumstances and outages.

Reliable performance

Establish redundancy in multiple regions to improve application performance for in-region users.

Automatic failover

vMX automatically routes to your redundant AWS public cloud services when one connection is down.

Check out vMX technical documentation