

The fastest way to scale SD-WAN to the cloud

5 Ways to Use Cisco Meraki vMX on AWS

Hello from Cisco Meraki! We're excited that you're ready to simplify your disaggregated services into an advanced, Meraki-powered hybrid. 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 will 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 dialogue with us at community.meraki.com

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

What we'll cover

Site-to-cloud connectivity

On-premises + AWS 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

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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 the AWS public cloud

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 enables you to 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

Enable your teammates to 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

[Try the vMX for free](#)

3. Remote worker-to-cloud connectivity

Ensure remote workers have 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 the new normal, and Cisco Meraki has designed the vMX to be both flexible and scalable. As such, workers only need one client VPN (such as Cisco AnyConnect) to securely connect to your organization's cloud or on-premises networks to access critical resources.

You can learn more on how this is achieved [here](#).

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

Try the vMX for free

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 is very 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 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

[Try the vMX for free](#)

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5. Redundancy in the cloud with vMX

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



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

[Try the vMX for free](#)