vMX on AWS Marketplace

With Juniper's vMX solution on the AWS Marketplace, customers now have the power to rule their cloud

Opportunity

Enterprises and service providers that are adopting public and hybrid cloud strategies need a comprehensive, full-featured virtual routing solution.

Solution

Juniper's vMX on the AWS Marketplace lets customers immediately take advantage of advanced routing features, with streamlined software delivery and simplified billing and payment.

Benefits

- Enjoy seamless, easy, immediate integration with current Juniper solution
- Enable secure migration of IT infrastructure and apps to the cloud
- Move data securely between AWS availability zones
- Build VPNs with AWS-based data and applications

Opportunity in the Cloud

To fully realize the benefits of their cloud strategies, enterprises and service providers need a full-featured routing solution that seamlessly integrates with their operations environment.

To ensure these objectives are met, enterprises and service providers can leverage the AWS Marketplace, which offers a comprehensive virtual product portfolio that includes the Juniper Networks vMX Virtual Router, a carrier-grade virtual routing solution.

The vMX on AWS Marketplace

The availability of Juniper Networks vMX virtual router on the AWS Marketplace provides a true carrier-grade virtual routing solution that ensures the smooth transition of enterprise workloads to the cloud.

The vMX is a virtual MX Series 3D Universal Edge Router that extends Juniper's edge routing expertise to AWS. The vMX is a full-featured router that offers complete control, forwarding and management planes, as well as an advanced service-centric feature set.

The vMX on the AWS Marketplace lets customers immediately take advantage of Juniper's advanced routing features for AWS workloads, which:

- **Streamlines Software Delivery**—Juniper software offered as a managed Amazon Machine Image (AMI) lets AWS Marketplace customers launch and use preconfigured vMX software in minutes.
- **Simplifies Billing and Payments**—Customers can bring their own vMX license (BYOL) or license the vMX via use-based pricing (Pay As You Go, hourly or annually). AWS Marketplace manages metering, billing, payment collection, and financial reporting for PAYG usage.

Features and Benefits

Specifically, vMX on AWS Marketplace allows customers to:

- Enjoy seamless, easy, immediate integration with their current Juniper solution
- Enable secure migration of IT infrastructure and applications to the cloud
- Easily and securely move workloads between AWS availability zones
- Build VPNs with AWS-based data and applications

vMX on AWS Marketplace Use Cases

The vMX provides advanced routing on the AWS Marketplace, which enterprises and service providers can use in multiple ways. Below are three of these use cases.

1. **vMX enables hybrid cloud deployment.**

   The vMX secures connections between the enterprise data center or corporate office and the Amazon Virtual Private Cloud (Amazon VPC).

   The Data center/corporate office can connect to AWS Marketplace in three ways: (1) via the Internet; (2) via a private MPLS network, (3) via AWS Direct Connect.

   In the case of AWS Direct Connect, the data center gateway will have a direct L2 connection to the Direct Connect router. The Amazon router will logically connect with vMX sitting in the Amazon VPC. To ensure secure connectivity to applications running on AWS Marketplace, the vMX will run as an IPsec tunnel endpoint. The other end of the IPsec tunnel can be the router at the data center/corporate office edge.

   In this model, the vMX provides 2.5 Gbps of throughput with IPsec, and can support 1,000 VPN connections, thereby avoiding per VPN costs.

2. **The vMX provides geo-redundancy for applications across AWS Marketplace regions.**

   With the vMX, enterprise customers can ensure geo-redundancy for applications running in multiple AWS Marketplace regions. The vMX secures the connection between inter-region VPCs by acting as the VPC gateway.

3. **The vMX as a virtual provider edge (vPE) router.**

Building out a physical network in a new market carries significant business risk: it relies heavily on forecasts and requires substantial upfront investments. With the flexibility that the vMX and AWS Marketplace provide, service providers can choose licenses that meet their initial needs and, as market demand grows, have the flexibility to upgrade bandwidth as needed.

Summary

The vMX on AWS Marketplace enables enterprises to easily migrate IT infrastructure and applications to the cloud while also ensuring geo redundancy for applications running in multiple AWS regions. For service providers, the vMX on AWS Marketplace simplifies the delivery of new services in a new market or geography, and helps contain business risk.

Next Steps

To learn more about the vMX on AWS Marketplace solution, please contact your Juniper account representative or visit juniper.net.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on Twitter and Facebook.

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