VMware Cloud on Equinix Metal

Distributed Clouds are extending the Multi-Cloud landscape

The demand for Distributed Clouds

With the rise of IoT and ubiquitous computing devices, a vast amount of data is created each day, processed by a growing number of applications across retail, gaming, financial services, healthcare, and many other industries. The cost of transmission of these large data sets, plus the need for predictable response times and appropriate security controls, has led to more data being processed across multiple locations and a greater need for distributed clouds. It's not uncommon to see organizations that have legacy workloads retained on-premises as a private cloud, new workloads developed in one or more public clouds, and select workloads distributed across edge clouds. Today, more than 87% of enterprises are building, managing, or running applications in two or more clouds, and by 2025, more than 50% of enterprise-managed data and applications will be created or processed outside an on-premises data center or a hyperscaler cloud[2].

As organizations look for solutions to support distributed multi-cloud strategies, a combination of critical capabilities is key.

Achieving low-latency performance. Many data-intensive workloads require close proximity to the point of transaction for both on-premises legacy applications and emerging high-performance edge applications. Data locality matters to deliver the performance necessary for latency-sensitive and high bandwidth workloads. In the absence of a suitable cloud solution, organizations default to retaining workloads in their on-premises data center and replicating infrastructure at each of their metro branches or locations which can be costly and inefficient.

Meeting security and data compliance needs. Many organizations, especially in healthcare, financial services and government, must satisfy data residency requirements for privacy, national security and compliance purposes. Companies must find solutions that provide the advantages of a cloud operating model combined with the ability to control, manage and ensure data compliance for their business-critical workloads.

Flexible operating models. IT organizations are challenged to meet the ever-increasing business demands and are embracing a multi-cloud strategy. To address this challenge, they need the ability to choose the right cloud for the right application at the right cost, Distributed clouds located in prime business centers gives them the ability to create and manage enterprise data more efficiently.

At a glance

- Right cloud for the right application at the right cost

- Extend cloud reach to distributed metro locations.

- Consistent low-latency performance and high-performance at the edge

- Satisfy regulatory and compliance requirements.

- Benefit from cloud economics for data center and near-edge workloads

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"With their combined strengths, Equinix and VMware are well positioned to deliver a distributed cloud service that will address the demands of enterprise applications where latency, performance, security, and data locality are key drivers."

Dave McCarthy
IDC, Research Vice President

vmware®

Benefits

- Fully managed cloud solution delivered and supported by VMware and Equinix
- Speedy deployment of IT resources at scale
- Predictable cloud cost for data-intensive workloads
- On-demand access to all hyperscaler cloud native services
- <20ms latency for performance-critical applications
- Re-use of existing networking for security continuity

Solution: VMware Cloud on Equinix Metal for Distributed Clouds

VMware Cloud on Equinix Metal (VMC-E) Solution extends VMware Cloud to distributed location endpoints and combined with Equinix's Digital Infrastructure Services, can address the demands of latency-sensitive applications where data locality and data residency are key drivers.

This is a jointly managed cloud service, with VMware's software running on Equinix's bare-metal-as-a-service, located in the proximity of prime business centers.

Customers will be able to extend their cloud reach to distributed metro locations, satisfy business-critical performance demands with a low-latency solution and continue to comply with security and regulatory requirements.

At the core of the service are VMware's Multi-Cloud IaaS, Equinix Metal-as-a-Service, and Equinix Fabric for connectivity to all hyperscaler cloud-native services.

Customers will be able to purchase the Multi-Cloud IaaS software from VMware and the bare metal-as-a-service capacity from Equinix and it will be available in over 24 global locations.

Efficiency, Performance, Control

VMware Cloud on Equinix Metal is uniquely capable of balancing cost, application performance, and compliance concerns,

It delivers better cloud economics for your data-intensive workloads - with on-demand capacity at a more consistent cost and high-speed access to cloud-native services.

It provides local cloud performance with Equinix's global footprint and drastically lower latency speeds for business-critical and near-edge applications.

And importantly, ensures a trusted cloud destination with the ability to adhere to stringent regulatory requirements, and maintain appropriate controls of the environment from a residency, tenancy, security, and network perspective.

Summary

VMware Cloud on Equinix Metal brings together the latest innovations to extend VMware's Multi-Cloud IaaS to distributed endpoint locations because data locality matters.

For more information on VMware Cloud on Equinix Metal visit our product page or contact a VMware representative.

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1. Source: VMware FY22 H1 Benchmark, N=1178 Technology Decision Makers
2. Source: Gartner®, Predicts 2022: The Distributed Enterprise Drives Computing to the Edge,   October 2022