Why VMs Need to Be First-Class Citizens Across Hybrid IT and Multicloud Architectures

As enterprise apps migrate to public clouds, virtual servers continue to support mission-critical enterprise workloads. As enterprise apps migrate to public clouds, virtual servers continue to support mission-critical enterprise workloads. By running your VMware workloads on Google Cloud, you reduce your operational burden while benefiting from the fully managed VMware Cloud Foundation environment, including vSphere, vCenter, vSAN, NSX-T, and HCX, while benefiting from Google Cloud’s highly performant infrastructure to meet the needs of your enterprise workloads.

Google Cloud and VMware have partnered to help you seamlessly migrate your VMware environment to the cloud without making any changes to your existing applications. With Google Cloud VMware Engine, you can run your existing VMware workloads on a fully managed VMware Cloud Foundation environment at cloud.google.com/vmware-engine. By running your VMware workloads on Google Cloud, you reduce your operational burden while benefiting from the fully managed VMware Cloud Foundation environment.

VM Migration Strategies Need to Align with Business Priorities and Budgets

Common concerns include:

- Greater separation of DevOps management
- Security/change management/compliance
- Reliability
- Performance
- Integration of tools across clouds
- Business/developer team preferences
- Cloud spend
- Business priorities and budgets
- Cloud infrastructure management and application support
- Cost and complexity of day-to-day operations
- Lack of a business case for re-platforming existing applications
- Data security, confidentiality, and integrity
- Hand-off between IT and development teams
- Latency
- Hands-on control
- Common Management Control Planes

Leverage virtualized workloads for better resource utilization and scalable processes. You can offload management and application support, reduce cloud spend, and improve reliability, security, and performance. By running your VMware workloads on Google Cloud, you reduce your operational burden while benefiting from the fully managed VMware Cloud Foundation environment, including vSphere, vCenter, vSAN, NSX-T, and HCX, while benefiting from Google Cloud’s highly performant infrastructure to meet the needs of your enterprise workloads.

Source: IDC Multicloud Management Survey, March 2019; n=200 enterprise I&O decision makers

Enterprise IT Infrastructure Pivots to a Hybrid and Multicloud World

IDC forecasts that in 2022, VMs will represent over 75% of total enterprise cloud spend.

Why Use More Than One Cloud?

What are the most significant multicloud management impacts that will result from the use of containers and Kubernetes?

- 55% DevOps management
- 55% Security
- 52% IT operations
- 55% Business/developer team preferences
- 62% Cloud spend
- 61% Business priorities and budgets
- 60% Cloud infrastructure management and application support
- 64% Cost and complexity of day-to-day operations
- 57% Lack of a business case for re-platforming existing applications
- 61% Data security, confidentiality, and integrity
- 55% Hand-off between IT and development teams
- 57% Latency

VMs Dominate Due to Public and Private Clouds

Source: IDC’s Cloud Pulse Survey 1Q20; March 2020; n=837

97% of enterprises rely on both public and private cloud computing.

VMs continue to be the dominant compute infrastructure.

Business Priorities and Budgets

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Source: IDC Container Infrastructure Software Market Assessment, April 2020

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Introduction of cloud-native workloads further increases complexity.

Multicloud management challenges:

- 54% DevOps management
- 55% Security
- 57% IT operations
- 55% Business/developer team preferences
- 62% Cloud spend
- 61% Business priorities and budgets
- 60% Cloud infrastructure management and application support
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Monetary Value to the Public Cloud Can Overcome Multicloud Challenges

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Common Management Control Planes

Address Business Concerns About Shifting Traditional Workloads to Public Clouds

"Manage Public Clouds"