

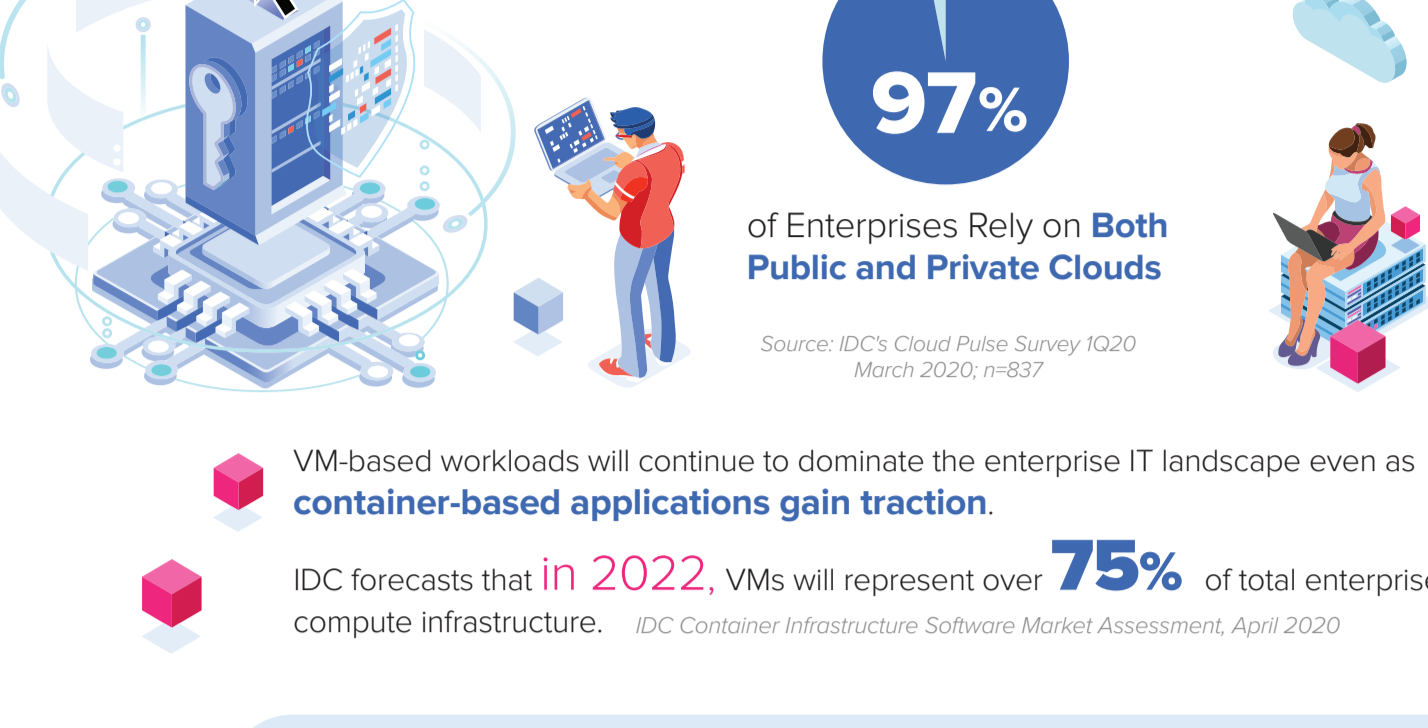
# Why VMs Need to Be First-Class Citizens Across Hybrid IT and Multicloud Architectures



As enterprise apps migrate to public clouds, virtual servers continue to support mission-critical enterprise workloads.

## Enterprise IT Infrastructure Pivots to Hybrid and Multicloud Cloud Strategies

### VMs Dominate Due to Security and Management Priorities



VM-based workloads will continue to dominate the enterprise IT landscape even as **container-based applications gain traction**.

IDC forecasts that **in 2022**, VMs will represent over **75%** of total enterprise compute infrastructure. *IDC Container Infrastructure Software Market Assessment, April 2020*

### Why Use More Than One Cloud?



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

## VM Migration Strategies Need to Align with Business Priorities and Budgets

**Mature VMware environments** support a wide range of critical workloads in environments that have been fine-tuned to assure that the infrastructure for each workload is **appropriately configured and secured**.

**Traditional applications** often have **many specific dependencies** at the OS and system infrastructure level, as well as dependencies on stable APIs and internal connectors and integrations.



### VM-based workloads show continued longevity for many reasons:



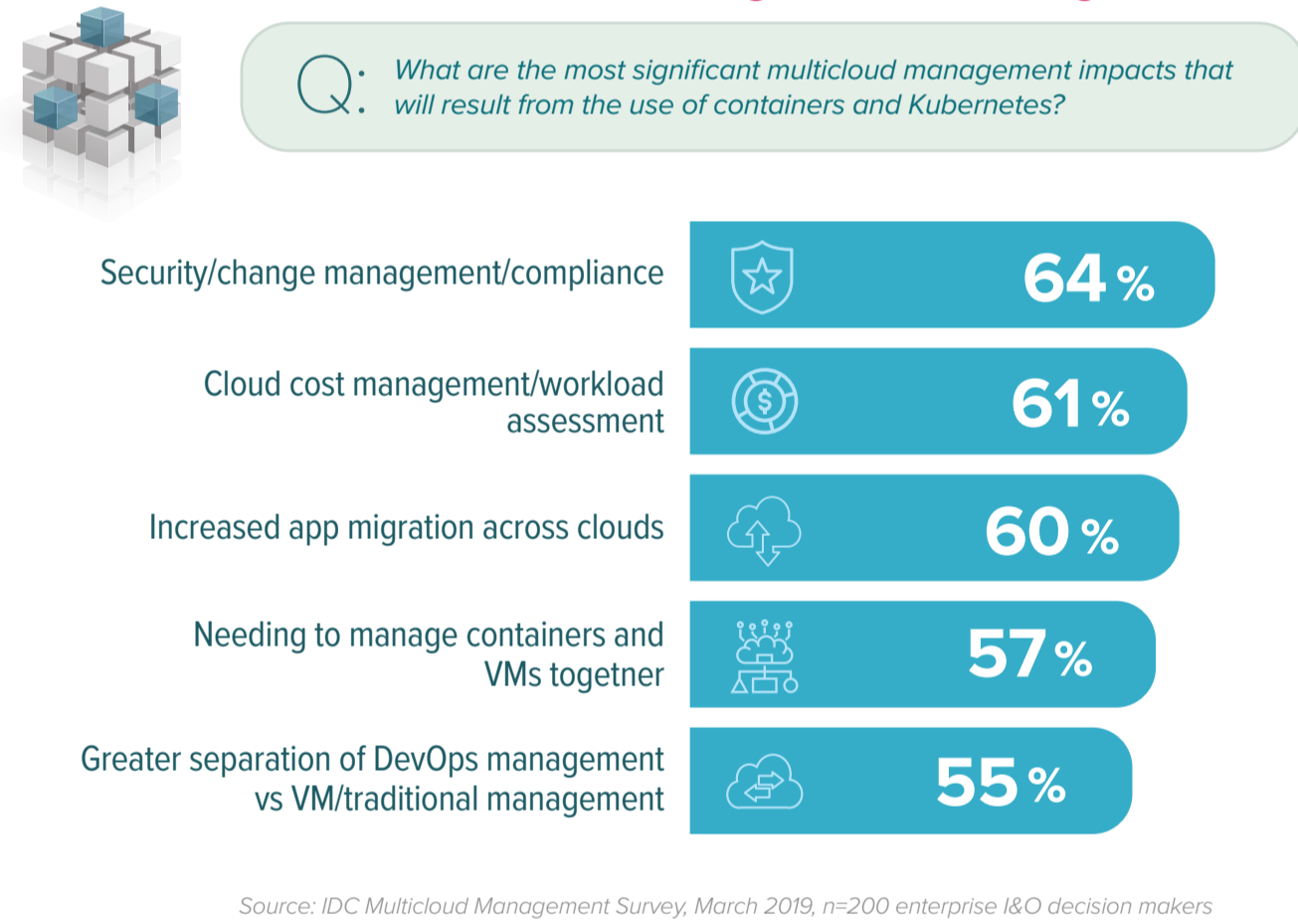
## Security and Control Challenges in a Hybrid, Multicloud World

The downside of mixed environments:



Introduction of cloud-native workloads further increases complexity.

### Multicloud management challenges:



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

## Moving VMs to the Public Cloud Can Overcome Multicloud Challenges:

Enable Agility, Innovation, and Consistent Operations



## Common Management Control Planes Address Business Concerns About Shifting Traditional Workloads to Public Clouds

**Engage across IT, LOB and development teams** to partner in defining policies and governance models and crafting overall architectural decisions.

### Common concerns include:

- Reliability
- Security
- Latency
- Hands-on control



### Getting Started with VMs in Public Clouds

- Maintain consistent management and control across VMs, regardless of where they are deployed
- Evaluate managed service and public cloud VM platform services options
- Prioritize strategies that maintain consistent operations, policies and control
- Test proof of concept with selected workload migrations
- Document results and expand as appropriate

## Message from Sponsor

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 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.

By running your VMware workloads on Google Cloud, you reduce your operational burden while benefiting from scale and agility, and maintain continuity with your existing tools, policies, and processes. Learn more at [cloud.google.com/vmware-engine](https://cloud.google.com/vmware-engine).