Operationalize Multi-Cloud

Achieve consistent operations across any app and any cloud

CHALLENGES

- Silos of technologies, processes and skills with potential skills gaps
- Underutilized resources and costs
- Management complexity with increased exposure and risk
- The inability to maintain governance without slowing down delivery

Introduction

On-boarding multiple public clouds increases agility and provides access to the innovation of hyper-scaler cloud providers including elastic infrastructure, Kubernetes, serverless, and more. However, the approach to date has resulted in organizations having different operating models and management tools in use for each cloud. The result is operational cloud silos that can lead to budget overruns, inefficiencies in the development pipeline, and the increased likelihood of security breaches due to configuration errors.

Multi-cloud operational challenges

As organizations adopt public cloud, the role of IT changes from being an IT provider responsible for the delivery, SLA, and support of underlying infrastructure to consuming infrastructure from a 3rd party provider and being responsible for capacity, cost, and governance. This IT paradigm shift is often incremental to the IT portfolio rather than a wholesale replacement for existing management practices, resulting in blind spots in monitoring usage, disparities in adherence to best practices, and ultimately higher levels of security and financial risk across teams and environments.

As cloud becomes more pervasive in the organization, many organizations start to take a more strategic approach to standardizing their operations. Some force the use of a single cloud, while others seek to find a way to simplify multi-cloud use. The goal for all of these organizations is to reduce operational complexity without sacrificing agility.

To successfully operationalize multi-cloud, organizations need a set of consistent cloud management capabilities that address the full-service lifecycle; from provisioning, deployment, and security through operations that support a diverse set of application workloads for both traditional and modern apps, running across any combination of clouds.

KEY TECHNOLOGIES

VMware vRealize Cloud Management

CloudHealth by VMware

VMware Tanzu Mission Control

The solution

VMware Cloud transforms the siloed practices of a growing and diverse IT portfolio into an intelligent cloud operating model; bringing consistency, compliance, and confidence to a multi-cloud world. VMware helps organizations embrace cloud on their terms, to meet the needs of their applications and their business with cloud management capabilities that span the data center, edge, and public clouds.

vmware®

VMWARE CLOUD UNIVERSAL

VMware Cloud Universal is a flexible subscription that delivers enterprise-class multi-cloud infrastructure and operations combining compute, storage, networking, management, and modern app services with customer entitlements to flexibly deploy VMware Cloud across a customer-managed private cloud, a fully managed local cloud, or fully managed public cloud.

VMware Cloud delivers:

Choice: Ability to support any combination of clouds and application architecture consistently with a common set of management capabilities and practices.

Speed: Accelerate service delivery and responsiveness to changes and issues. Leverage IT skills, management tools and methodologies across clouds to onboard public clouds and Kubernetes in a fraction of the time and with greater agility.

Control: Manage consistently across any combination of clouds and application architectures to streamline operations, maintain compliance, and optimize IT costs.

Use cases

Multi-cloud operations

Organizations looking to migrate to the cloud, adopt a hybrid cloud architecture or multiple public clouds face a growing number of IT silos that lead to inefficiencies and increased risk. IT needs the ability to ensure visibility across their entire cloud and app portfolio at every stage of the service delivery lifecycle so it can continuously optimize and improve the environment.

Cloud financial management

As cloud adoption grows throughout the organization, the costs can quickly spiral out of control due to new app development and migrated apps, forgotten instances that were not decommissioned, and poorly utilized cloud resources. Organizations need the ability to conduct proactive workload planning in order to right-size the deployment of cloud resources and to continuously optimize the costs associated with these resources.

Security and compliance

Multi-cloud strategies allow organizations to deliver applications from the best cloud for the job. While this expands their choices; the increasingly distributed nature of the environment expands the surface area and associated risk. As organizations increase their cloud usage, they require the ability to automate security based on policy and to gain real-time visibility into their security posture across every cloud and across every application. With this level of visibility organizations can better assess risk, quickly troubleshoot issues when they arise, and maintain compliance with operational and industry standards.

VMware Cloud

Redefine the foundation of IT with cloud capabilities, modern architectures, and consistent operations in the data center, any cloud, and edge for all applications. VMware Cloud transforms private data centers, hyper-scalers, and remote sites into a unified and elastic multi-cloud platform with integrated compute, network, storage, security, Kubernetes, and cloud management optimized to securely and reliably deliver any application, everywhere.