

eBook

BUSINESS MODERNIZATION STARTS WITH HYBRID MULTICLOUD

Hybrid multicloud is the jewel in the crown
of every modernization effort.

NUTANIX

Introduction

Hybrid multicloud is an IT operating model that unifies on-premises datacenters, public clouds and edge environments—enabling seamless management of applications, workloads and data across diverse infrastructures.

This consistent approach simplifies operations, enhances agility and provides the flexibility needed to support evolving business demands. It's not just a technology initiative—it's a foundational shift that empowers organizations to modernize legacy systems, foster collaboration, scale intelligently, and innovate continuously.

The following imperatives illustrate how hybrid multicloud enables organizations to modernize with purpose and agility while delivering meaningful business outcomes:

Migrate Legacy Systems

Organizations can easily move applications from outdated systems to modern hybrid multicloud environments, reducing reliance on aging legacy technology.

Improve Business Collaboration

Enhanced hybrid multicloud capabilities facilitate better collaboration across teams, departments and with customers to drive productivity and efficiency.

Scale Intelligently

Businesses can scale their operations more efficiently by utilizing the resources of multiple cloud providers and accommodating growth without significant upfront investment.

Optimize Continuously

Ongoing monitoring and adjustment of cloud resources enable mission-critical applications and containerized workloads to be optimally placed to support evolving business requirements.

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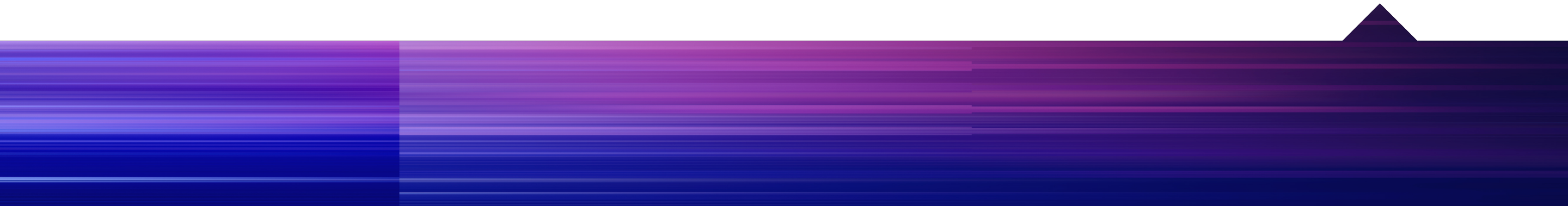
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The Pivotal Role of Hybrid Multicloud in Modernization

According to IDC, a common infrastructure between private and public cloud makes it easier to move workloads between them. A consistent and unifying management fabric can dramatically simplify the mobility of on- and off-premises workloads.

Here are a few key benefits of modernizing business with hybrid multicloud:

Accelerate Transformation

Hybrid multicloud accelerates modernization by enabling quick and seamless mobility for apps and containerized workloads between on-premises, cloud and edge. It also eliminates the need to refactor, re-architect and replatform apps, which is costly and can take months.

Lower Total Cost of Ownership

It doesn't force you to stretch your budget. Quite the opposite, hybrid multicloud can result in lower TCO and maximize your return on investment due to simplified management, automation, consolidation, and optimized consumption.

Unify Everything

A unified hybrid multicloud platform with a single control plane simplifies the management and deployment of apps and containerized workloads across on-premises, cloud and edge.

Built-in security and resiliency streamline data protection, support sovereignty efforts, and offer continuous business operations wherever you run apps and workloads.

Run Apps and Data Anywhere

The transformative nature of hybrid multicloud ushers in complete portability for all apps, workloads and infrastructure licenses, providing a huge savings advantage. It also enables the optimal placement of apps and workloads anywhere—today and in the future.

What's Driving Modernization?

Proliferation of Apps and Data

IDC forecasts that **1 billion** new logical applications will be created by 2028, driven largely by increased complexity and AI.

Workloads Across Disparate Environments

Enterprise organizations will see up to **85%** of workloads no longer optimally deployed by 2027, according to [Gartner](#).

Rise of GenAI

Businesses are leveraging AI for data-driven decision-making and competitive differentiation with insights into customer preferences and market trends, according to [Forbes](#).

The Impact on IT

C-level executives are rapidly adopting hybrid multicloud strategies to drive business modernization efforts. But modernization with hybrid multicloud also has a seismic impact on IT organizations that are the agents of change.

IT agility, scale, resilience, efficiency, and security are the watchwords of modernization. For many enterprise organizations, the impact on IT is simply about innovation: Having the power to bring new revenue-generating solutions and services to market faster.

Hybrid multicloud gives IT professionals the best of public cloud services—resource scalability and simplified management—and the best of on-premises private clouds, such as strong security, policy-based controls and consistently high performance.

IT Takeaways: Modernization with Hybrid Multicloud

- Easily manage, secure and access datacenters, clouds and edge locations as one.
- Move apps and workloads anywhere with ease based on business requirements.
- Use a universal set of tools that do not require special training or technology expertise.
- Support a broad ecosystem of hardware, hypervisors, apps, workloads, and clouds.

Cutting Through the Cloud Jargon

Just because you rely on different clouds doesn't mean you have a hybrid multicloud infrastructure. Here's the difference:

Multiple Clouds

Use of multiple public cloud deployments that are implemented, managed, and updated separately—often with completely separate tools, processes and skill sets.

Multicloud

Use of multiple public cloud providers that are managed under a single platform, giving you complete visibility into containerized workloads, apps and data.

Hybrid Multicloud

On-premises datacenter and edge operations plus multiple public clouds. It's a combination of hybrid cloud and multicloud but with one unified operating model.



The Upside

Following are today's biggest IT modernization requirements and how hybrid multicloud meets these demands. This can ultimately lead C-level executives to achieve positive business outcomes that align with transformation objectives.

Fast and Reliable Disaster Recovery

Critical to modernization, businesses demand strong data protection and fast recovery from outages. IT must expand beyond on-premises datacenters to meet business continuity and disaster recovery SLAs to deliver reliable outcomes and without breaking the bank.

The optimal hybrid multicloud platform avoids cloud and vendor lock-in. It also eases the burden on IT professionals by eliminating the need to use scores of new tools, learn new skills and manage a complex range of isolated technology silos.

On-Demand Capacity Bursting and Elasticity

Modernization must accommodate unexpected spikes in business demand. Without modernization, the only way to handle these spikes is to manually over-provision resources, which leads to higher costs and underutilized capacity.

Hybrid multicloud provides on-demand and automatic elasticity to burst or extend workloads to the public cloud when additional capacity is needed. This gives IT the dexterity to quickly adapt to sudden spikes in business growth.

Rapid Application Development and Mobility

Migrating existing applications from on-premises to public clouds, managed clouds and edge locations can be challenging. A majority of applications require expensive and time-consuming architectural adjustments to operate in these different environments.

Hybrid multicloud offers a solid foundation for application mobility. It uses a unified operating model between on-premises, cloud and edge that eliminates the need to retool, replatform or refactor apps. This gives you the speed and agility to respond to business change.

Modernize with Intent. Lead with Confidence.

Modernization with hybrid multicloud is a board-level priority as well as an actuator for business growth, agility and innovation that extends well into the future.

Hybrid multicloud satisfies a wide range of business modernization requirements. It provides freedom of choice instead of forcing businesses to rely on a single vendor. It also simplifies and adapts quickly to change for extraordinary business agility.

By unifying on-premises, public cloud and edge environments, hybrid multicloud accelerates modernization by streamlining business processes, fueling innovation, scaling business operations, and maintaining a razor-sharp competitive edge.

Modernize with hybrid multicloud now and take the lead in the future.

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