

An Enterprise Guide to a Practical Hybrid Cloud

How to develop a robust cross-cloud
architecture with seamless interoperability
and consistent performance

IDC #AP2413421B



Executive summary

The uncertainty and disruption experienced by enterprises over the last couple of years have fundamentally changed how they perceive digital transformation. With agility, resiliency, and sustainability emerging as the key themes driving decision-making, it is no surprise that enterprise IT environments are rapidly becoming hybrid and multicloud. IDC surveys suggest that over 63% of Asia/Pacific enterprises will move to a hybrid cloud model with full or high data and application interoperability within the next two years.

While hybrid cloud holds enormous potential, enterprises need to carefully navigate their cloud journey to avoid some of the common yet costly drawbacks, to name a few — disconnected technology silos, increased management complexity, and runaway cloud costs. The solution is to develop a robust cross-cloud architecture that enables policy-driven automation, advanced observability, and real-time analytics to deliver desired business, service level, security, and compliance outcomes.

However, executing an integrated hybrid cloud transformation strategy is a complex undertaking that needs a broad set of critical capabilities. Engaging the right transformation partner early can help enterprises optimally plan and execute their hybrid cloud journey to deliver key organisational objectives while minimising execution risks in their transformation journey.

This IDC InfoBrief explores what it takes to achieve seamless interoperability and consistent performance across a distributed cloud environment; and the crucial role of a cloud services partner in helping realise the enormous promise of a hybrid-cloud future.

Agility, resilience, and sustainability key factors for digital transformation

In an environment where uncertainty and disruption are the norms, we are entering a new phase of enterprise digital transformation based on agility, resilience, and sustainability principles.



Kubernetes disrupt traditional DevOps automation and processes, and cloud-native development — by 2025, **30%** of DevOps adopters will embrace more streamlined GitOps automation processes.



Implication: Future-ready enterprise IT estates will seamlessly support DevOps practices for cloud-native technologies to allow developers to access the latest innovation on cloud platforms.



In 2023, over **60%** of A2000 enterprises will cite business resiliency to drive verifiable infrastructure supply chain integrity as a mandatory and non-negotiable vendor evaluation criterion.



Implication: Every constituent of the enterprise IT architecture will need to be demonstrably resilient against supply chain disruptions and other shocks.



By 2025, **75%** of organisations will use software- and cloud-based infrastructures to create a 35% increase in sustainable efficiencies across workloads and datacentres.



Implication: Infrastructure options and architecture models that support the enterprise's environmental, social, and governance (ESG) goals will displace ones that do not.



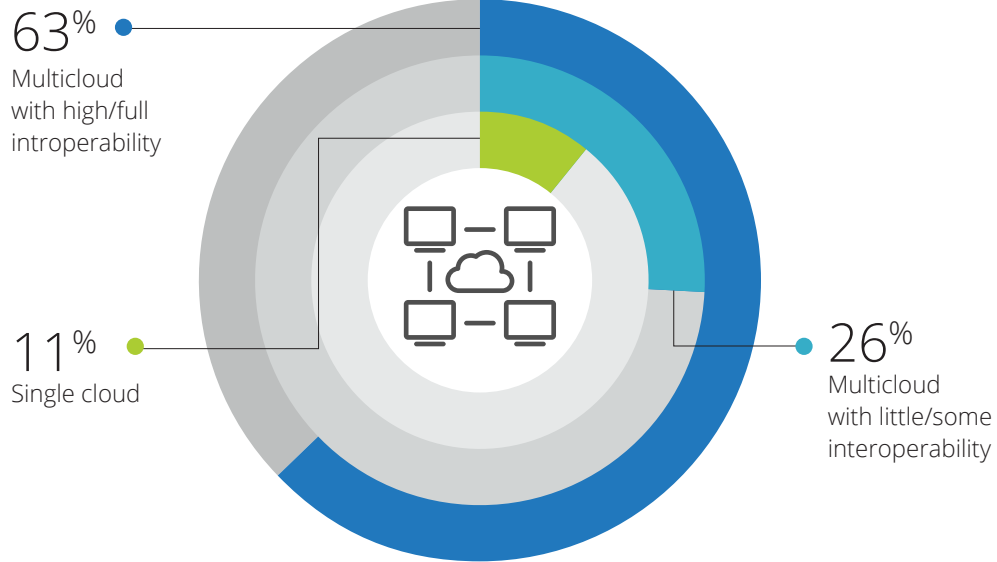
Key takeaway: The hybrid cloud construct addresses all these key considerations.

Source: IDC

Hybrid cloud — a model of choice for the Future Enterprise

Q

Over the next two years, how would you describe your use of different on-prem and off-prem cloud environments?



➤ Over 63% of enterprises will move to a hybrid cloud model within the next two years with full/high data and application interoperability.

➤ The ability to build modern apps using containers and other cloud-native innovations is a significant part of the appeal of hybrid cloud.

Q

Which of the following explains why your organisation has either a single cloud or a multicloud with little/no interoperability strategy?



59%
Creating interoperability in a multicloud environment is too expensive



37%
Creating interoperability in a multicloud environment is too technically complex

➤ The cost and complexity of multicloud interoperability are key concerns.



Key takeaway: Cost and complexity challenges must be solved for enterprises to realise the power of hybrid cloud fully.

Source: IDC Cloud Pulse Surveys 2021, n = 450 for Asia/Pacific

The promises and pitfalls of a hybrid cloud journey



Key takeaway: The promise of hybrid cloud is appealing, but realising these benefits is contingent on successfully navigating a host of potential pitfalls that can hinder an enterprise's hybrid cloud journey.

Source: IDC

Hybrid IT and the challenge of cloud cost management

Q

How concerned is your organisation with the growing technology investments required to remain competitive?



12%

Not particularly concerned



88%

Highly or extremely concerned

▶ As the cloud establishes itself as the foundation of enterprise IT, managing cloud costs effectively is increasingly becoming a key organisational challenge.

Key challenges in cloud expenditure management that enterprises face:

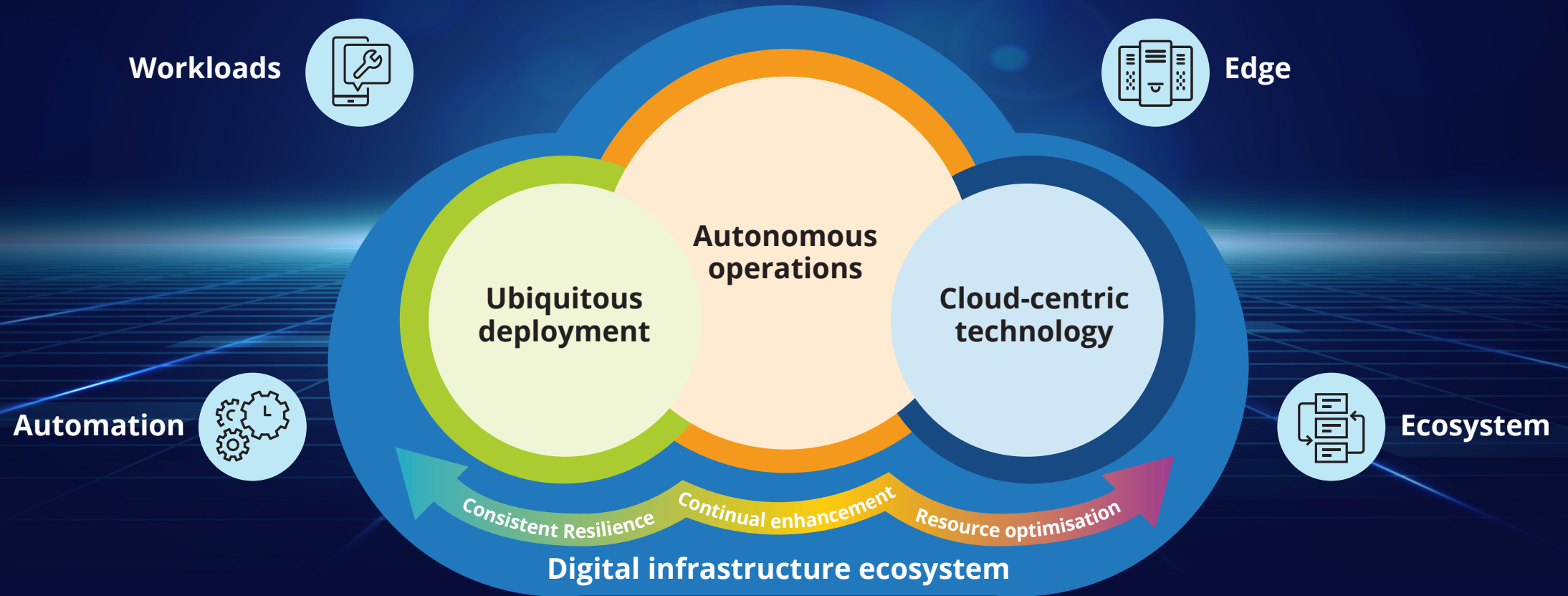
- Developing accurate spending forecasts
- Understanding cloud pricing models, billing, and reporting
- Cloud cost allocation and chargeback
- Gaining insight into oversizing and wastage
- Cloud governance implementation



Key takeaway: Mechanisms that effectively address cloud cost management challenges are a priority.

Source: IDC Future Enterprise Resiliency and Spending Survey 2022 (Wave 1), n = 370 for Asia/Pacific

Connected cloud architecture for the future of digital infrastructure



▶ Freedom from technical debt

▶ Rapid adaptability in crisis

▶ Optimal exploitation of opportunities

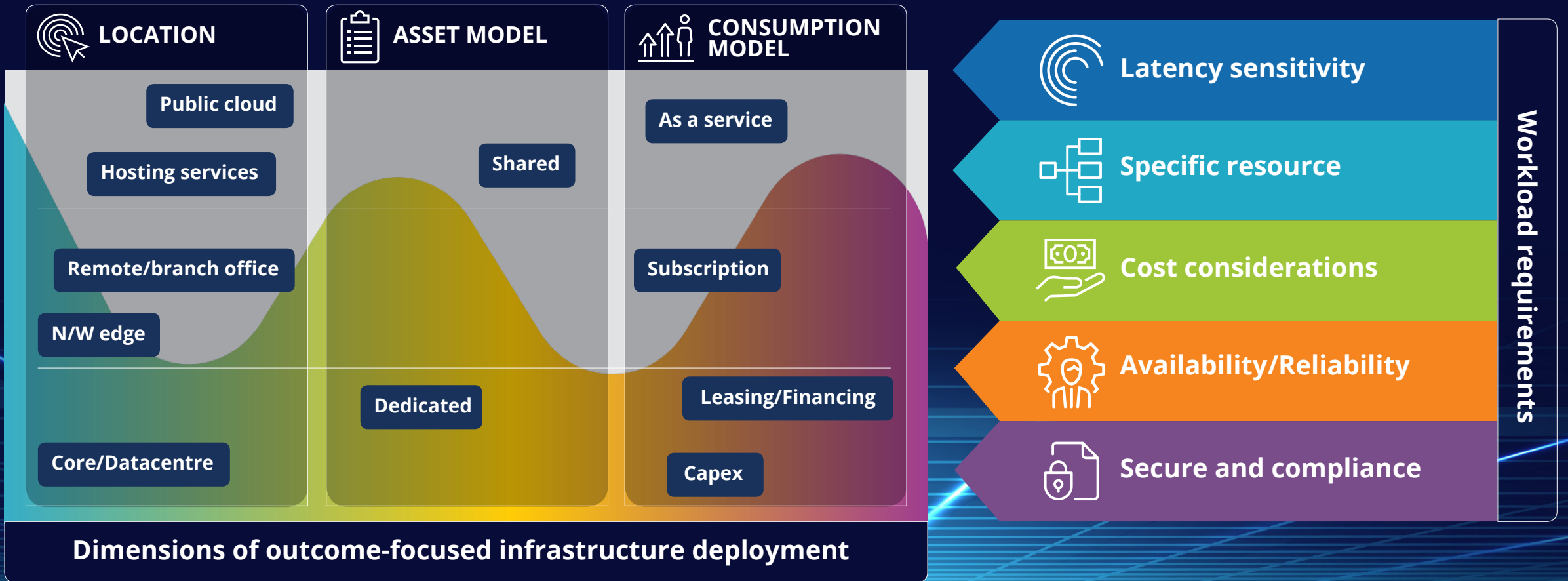
▶ Resource visibility and consumption optimisation

▶ Transparent billing and reporting



Key takeaway: A robust cross-cloud control plane will enable policy-driven automation, advanced observability, and real-time analytics and is key to maintaining service levels, security, and compliance.

A deployment decision matrix for enterprise workloads



Key takeaway: Enterprises need to systematically evaluate digital infrastructure options against the specific requirements of individual enterprise workloads to identify the best-fit deployment model by workload.

The role of a cloud services partner in shaping and enabling the evolution



Key takeaway: Executing an integrated hybrid cloud transformation strategy is a complex undertaking that needs a broad set of critical capabilities. Look for a cloud services partner that ticks all the key boxes on your checklist.

Essential guidance

Hybrid cloud represents the de facto operating model of the Future Enterprise. IDC has the following recommendations for enterprises that are looking to embark on their hybrid cloud journey:



Choosing the right IT modernisation partner

In the journey to the perfect IT environment, choosing the right partner is essential — one that has the experience and skills to help choose suitable IT platforms and application landscapes to support the business demands.

The right partner will help you:





- Unlock the value of their business platforms, new technologies, and new ways of working
- Align IT with the business demands with the right mix of agility to adapt to new business conditions
- Simplify and optimise the IT estate, using automation and continuous optimisation, to deliver savings that fund transformation initiatives
- Modernise the existing environment by adapting legacy applications to the right mix of hybrid cloud, allowing customers to unlock the business value in legacy applications
- Integrate, operate, and secure their legacy and multicloud environments at scale, and transform the IT function to enable the customers' business agenda through a secure, platform-centric modern IT estate

Visit us at:

- <https://dxc.com/us/en/cp/cloud-right-cloud-transformation>
- <https://dxc.com/us/en/services/cloud/hybrid-cloud-and-multicloud>

Multi-tenant VMware Cloud on AWS

DXC provides clients with managed private cloud services that leverage the flexibility, native capabilities, and scale of public cloud services.

 Best-in-class technology	 Cost effective	 Private cloud features & security benefit of public cloud	 Experience
<ul style="list-style-type: none">• Hyper-converged infrastructure, management, and security• Proven security leveraging native AWS and VMware technologies• Integrated IaaS, PaaS and SaaS capabilities from VMware and AWS• SLAs from 99.9%–99.99%	<ul style="list-style-type: none">• Access VMware Cloud on AWS on-demand capabilities at highly discounted levels• No minimum 3-year, 3 node commitments, pay for what you use• Billing per hour vCPU, vRAM, and GiB allocated storage	<ul style="list-style-type: none">• Enables service flexibility, agility, and portability• Heterogeneous (hypervisor, deployment, development, infrastructure)• Designed to support our client's cloud and datacentre exit strategies	<ul style="list-style-type: none">• 2,000+ private cloud customer engagements• Common support capabilities and access into DXC's Cloud Management Plane• Innovative commercial models

Read more - <https://dxc.com/au/en/cp/multi-tenant-vmc-aws>



IDC Asia/Pacific

83 Clemenceau Avenue
#17-01 UE Square, West Wing
Singapore 239920
T 65.6226.0330

[idc.com](https://www.idc.com)

[@idc](https://twitter.com/idc)

About IDC

International Data Corporation (IDC) is the premier global provider of market intelligence, advisory services, and events for the information technology, telecommunications, and consumer technology markets. IDC helps IT professionals, business executives, and the investment community make fact-based decisions on technology purchases and business strategy. More than 1,100 IDC analysts provide global, regional, and local expertise on technology and industry opportunities and trends in over 110 countries worldwide. For 50 years, IDC has provided strategic insights to help our clients achieve their key business objectives. IDC is a subsidiary of IDG, the world's leading technology media, research, and events company.

IDC Custom Solutions

This publication was produced by IDC Custom Solutions. The opinion, analysis, and research results presented herein are drawn from more detailed research and analysis independently conducted and published by IDC, unless specific vendor sponsorship is noted. IDC Custom Solutions makes IDC content available in a wide range of formats for distribution by various companies. A license to distribute IDC content does not imply endorsement of or opinion about the licensee.

Copyright 2022 IDC. Reproduction is forbidden unless authorized. All rights reserved.

Permissions: External Publication of IDC Information and Data

Any IDC information that is to be used in advertising, press releases, or promotional materials requires prior written approval from the appropriate IDC Vice President or Country Manager. A draft of the proposed document should accompany any such request. IDC reserves the right to deny approval of external usage for any reason. Email: ap_permissions@idc.com

IDC #AP241342IB