

An IDC Infographic

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DELIVERING ENTERPRISE HYBRID MULTICLOUD CONNECTIVITY



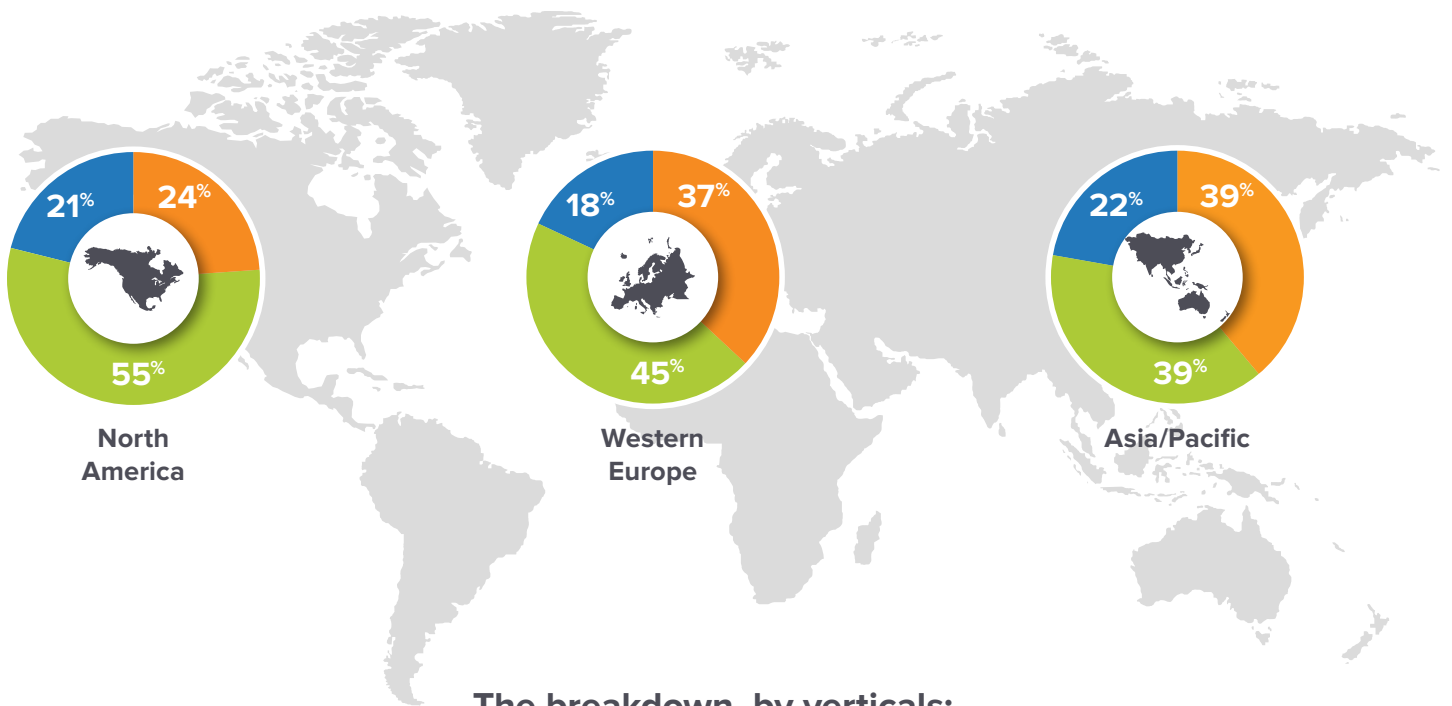
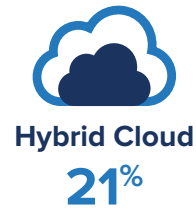
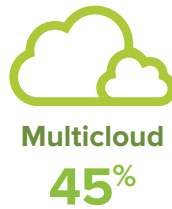
The mainstreaming of hybrid and multicloud architectures entails extensive modernization and transformation of the IT infrastructure, including that of the network. Enterprises that fail to properly appreciate this invariably discover that the network will ultimately inhibit successful digital transformation.

This IDC Infographic gives a quick overview on the network implications of hybrid and multicloud trends, and the benefits of adopting this architecture.

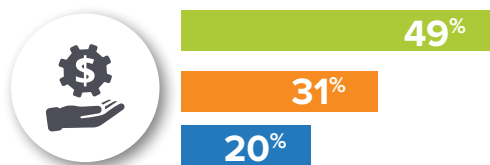
The New Normal: Hybrid and Multicloud

90% of enterprises worldwide will rely on a mix of on-premises/dedicated private clouds, several public clouds, and legacy platforms to meet their infrastructure needs by 2021.

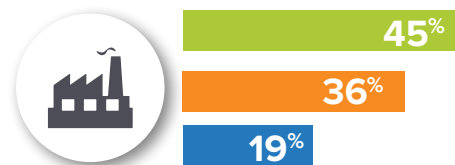
Globally



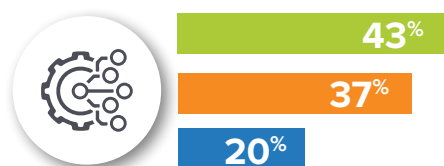
The breakdown, by verticals:



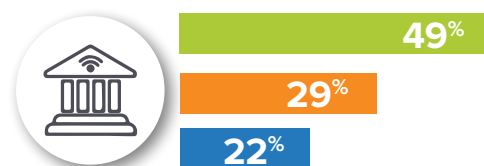
Financial Services



Manufacturing



Infrastructure and Technology Services

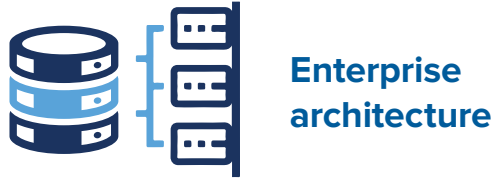


Public Services

Hybrid and multicloud approaches are becoming the new normal to support business agility and concentration risk.



Organizations are adapting their architectures for enhanced network performance and reliability



Consistent, extensible network and security policy



Intelligent, policy-based network automation and control



Hybrid, multicloud architecture



Revamped network

A new way of routing traffic expeditiously and reliably through cloud middle miles and cloud cores.



Benefits

Secure ingresses and convenient on-ramps into clouds to mitigate



Latency



Enhance application experience

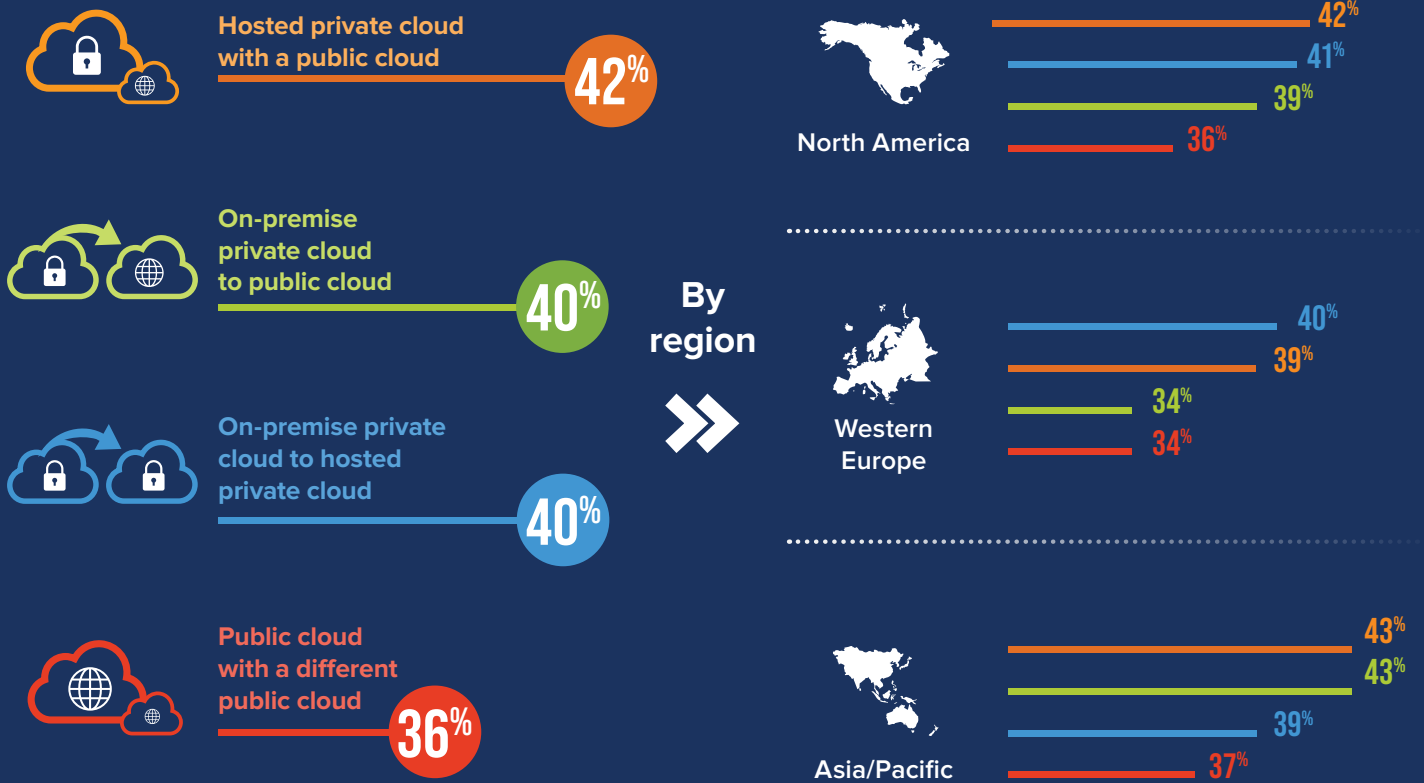


Improve availability

Why Hybrid Multicloud Connectivity?

Increasing interdependencies of business applications drives network traffic between clouds, resulting in the need for cloud-to-cloud connectivity.

Cloud-to-Cloud Connectivity



According to a recent IDC survey:

The top two priorities and challenges in hybrid IT and multicloud were:

- 1 Ensure data security and compliance
- 2 Improve network performance



And, when it came to cloud investments:

59%

of enterprise respondents indicated that **INTEGRATED NETWORK PROCESSES** would be an important area during the next two years.

Enterprises migrating applications to public infrastructure as a service (IaaS) clouds and software as a service (SaaS) environments have resulted in both the datacenter and the datacenter network becoming distributed.

What is Hybrid Multicloud Networking?

Vendors in the networking space have been facilitating this move through different solutions.

PUBLIC CLOUD



Connectivity

Communications service providers are offering their transport networks, hosting services, and connectivity services to clouds.

Architecture

IaaS cloud vendors offer:

- Cloud cores
- Global transit networks
- Cloud wide area networks (WANS)

Overlays

Software-defined WAN (SD-WAN) vendors are partnering with IaaS clouds and interconnection-oriented service providers to offer overlays at the edge to:

- Augment the last-mile with pops
- Circumvent the Internet and provide better service and greater security

ENDPOINT DEVICES



Customer
Mobile



Enterprise
IoT

CORE



HQ
Enterprises
On-Premises



Datacenter
3rd Party
Managed
Co-location

EDGE



Branches
Enterprises On-Premises/

Policies

Enhanced and extended datacenter software-defined network platforms support:

- The definition and enforcement of consistent network and security policies

Hybrid, multicloud networking addresses the complexity in networking, which usually translates into costly and lengthy processes. Overcoming this complexity requires cross-cloud networking expertise, which is often lacking in most enterprise IT departments.

Why should organizations adopt hybrid and multicloud networking?

A well-built hybrid and multicloud network can deliver a range of cloud-aligned capabilities:



On-demand

Like the cloud, a hybrid and multicloud network should be on-demand—provisioned, deployed, and available when needed.



Autoscaling

Just as cloud resources scale up and down automatically as needed, a hybrid and multicloud network must similarly autoscale in alignment with the requirements of cloud workloads and resources.



Agility and speed

A hybrid and multicloud network, which supports distributed cloud workloads, will be agile and capable of operating at the speed of digital business.



Pervasive, real-time visibility

Enterprises pursuing hybrid and multicloud often encounter a range of visibility challenges, including intermittent or partial visibility across clouds and too many blind spots.

Sources:

IDC Cloud Pulse Survey (Worldwide), 2020, N=2,000
IDC FutureScape: Worldwide Cloud 2020 Predictions, Doc # US44640719, October 2019
IDC Cloud Prediction 2020 (Worldwide)
IDC's Datacenter Operational Survey (2019), n=400



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