

# The Rise of Distributed Workloads and Its Impact on IT Decision Making

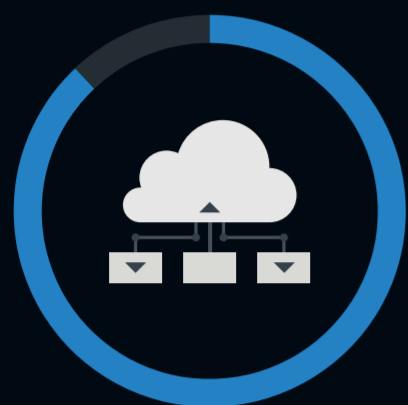
TechTarget's Enterprise Strategy Group (ESG) conducted an in-depth survey of 350 IT professionals responsible for evaluating, purchasing, and managing applications and infrastructure at large midmarket and enterprise organizations in order to better understand the strategy, process, personas, and considerations involved in multi-cloud application deployment and migration decisions. The results show that distributed application environments spanning multiple public clouds, data centers, and edge and colocation locations are the present and future reality for IT. In addition, trends identified in this research point toward a more even distribution of applications and spending across on- and off-premises environments in the future and away from consolidation at any single location.

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## It's a Multi-cloud World

Today's average application environment is highly distributed, with most organizations deploying and managing applications across at least two on-premises data centers, two colocation data centers, two public cloud IaaS locations, and two public cloud PaaS locations.

» MULTI-CLOUD IS BOTH STRATEGIC AND COMPLEX.



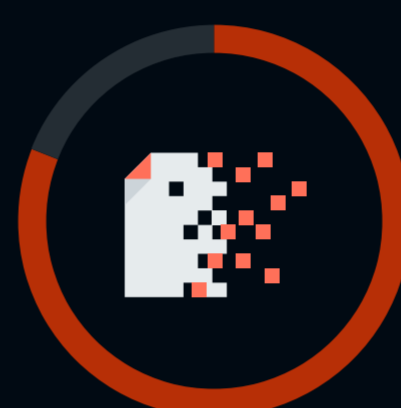
**88%**  
of organizations agree that leveraging multiple public cloud providers delivers strategic benefits.



**87%**  
of organizations expect their application environment to become distributed across even more locations over the next 2 years.



**82%**  
of organizations struggle to properly size workloads for the optimal infrastructure environment (on or off premises).



**81%**  
of organizations face challenges with application and data portability across locations.

## Cloud Deployment Barriers Reveal Crucial Justifications for On-premises Infrastructure

Even cloud-first organizations still choose on-premises for net-new applications for specific circumstances, such as application team preference, data governance, and TCO.

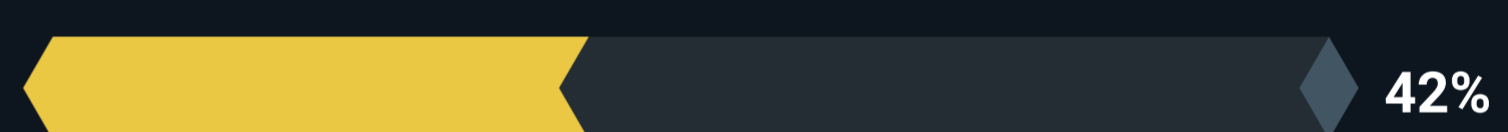


**45%**  
stated they've deployed a net-new application on premises despite having a cloud-first application deployment policy due to application owner or developer preference.

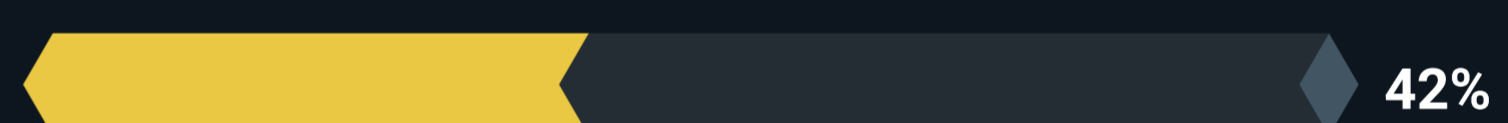


Other causes of exceptions to cloud-first policies included:

Data governance or sovereignty considerations



TCO



## Data Access and Mobility

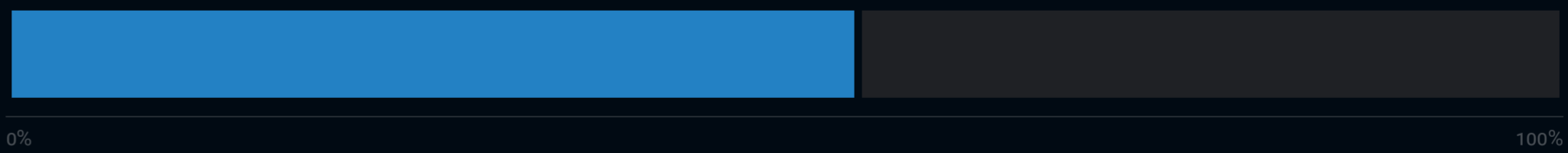
For existing applications, data access and mobility drive organizations' decision making for location selection. This reinforces the critical role that data and the cost and complexity of moving data play in application migration decision making.



When selecting a deployment location for existing applications,

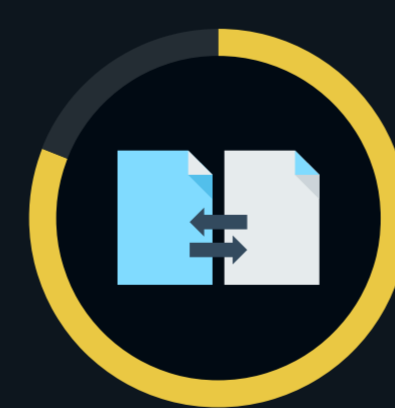
### DATA ACCESS AND MOBILITY

was identified by more than half (54%) of organizations as a carefully evaluated requirement.



## Applications and Data Are Vital, but Organizations Struggle with Placing Them Where They Work Best

These challenges include the cost, complexity, and risk associated with refactoring or replatforming applications for the cloud.



**81%**  
of organizations reported that they face challenges with application and data portability across locations (including data center, public cloud, and edge).

## Conclusion

Multi-cloud offers strategic benefits, as well as challenges. Organizations need to partner with a vendor that can help them place workloads according to business needs, rather than technological limits.

Dell APEX delivers cloud experiences wherever organizations have applications and data, whether on premises, in a colocation, at the edge, or in public clouds, enabling optimal workload and data placement. In addition, APEX offers organizations simplified procurement and management experiences while increasing the agility of their IT and development organizations.

Dell Technologies solutions offer a broad portfolio of industry leading technologies, as well as partnerships across the multi-cloud ecosystem, with more than 400 validated designs to accelerate your multi-cloud journey.



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