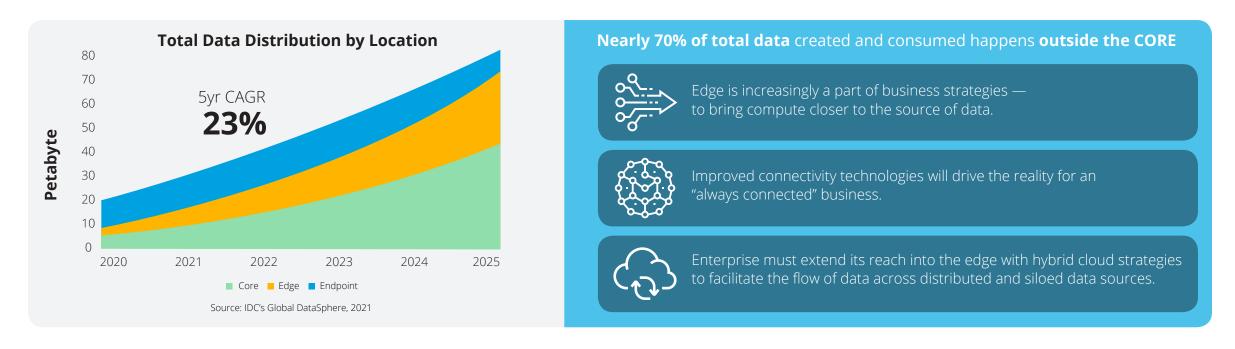


The Growth of Edge Compute and Devices



80% of enterprises will run varying levels of data processing at the IoT edge. In tandem, organizations will spend over US\$6.2 billion on IoT edge Infrastructure by 2022.

Source: IDC Cloud FutureScape, 2020



As data volumes increase, the cost and time delay of moving data to the **centralized core** rapidly becomes unacceptable. Moving workloads to the **distributed edge** will allow for local processing and maximize the time to value delivery.



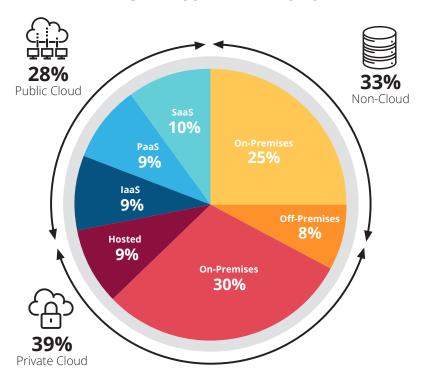
Challenges of Data Management



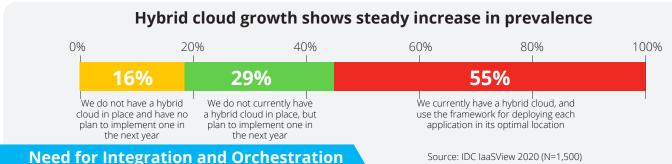
Integrate and orchestrate data and workload across different cloud deployment models

Significant proportion of applications remaining on non-cloud and private cloud infrastructure at the edge, leading to a hybrid IT environment. With data living outside the core datacenters, interdependencies of applications will increase dramatically in the next 2 years.

Percentage of Application Deployment Model



Source: IDC 1Q20 Cloud Pulse Survey (N=2,000)





Broad-based cloud consumption demands a myriad of cloud services to run effectively, leading to customers leveraging on multiple cloud service providers to support their growth.



Increasing hybrid cloud approach leads to on-premises private cloud solutions having control and data plane living outside customers' core datacenters.



Growing repatriation of workloads between public and private clouds leads to the movement of applications and data across all cloud/non-cloud environment.

Infrastructure functions such as data processing and storage are no longer limited to a core datacenter. Core and edge infrastructures convergence is required for hybrid cloud data management.



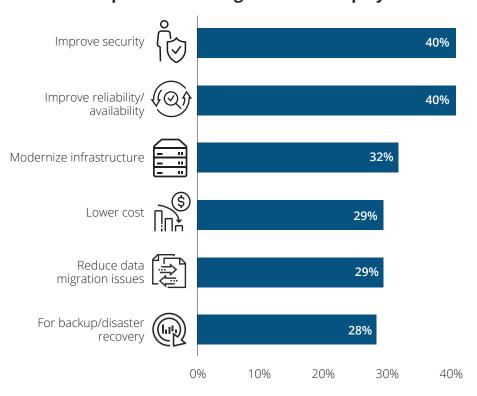
Challenges of Data Management



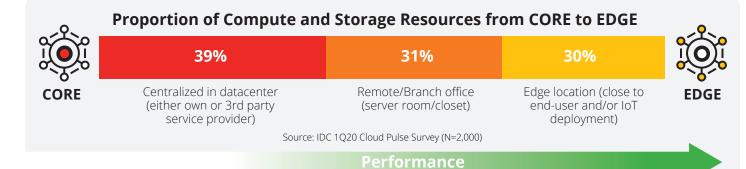
Performance of enterprise database in a distributed cloud environment

Edge location deployment is required to address the challenges around network latency and data efficiency for real-time insights. This new requirement to store data at the edge will lead to the evolution of a new model of multi-locational hybrid data architectures.

Top Drivers for Edge Location Deployment



Source: IDC 1Q20 Cloud Pulse Survey (N=1,757)



Need for Multi-locational Hybrid Data Architecture



Consistent performance and availability experiences across on-premises and off-premises private and public cloud deployment for all workloads.



Consolidation of datacenters to support hybrid workloads could enable high-bandwidth and low latency connectivity to one or more cloud providers.

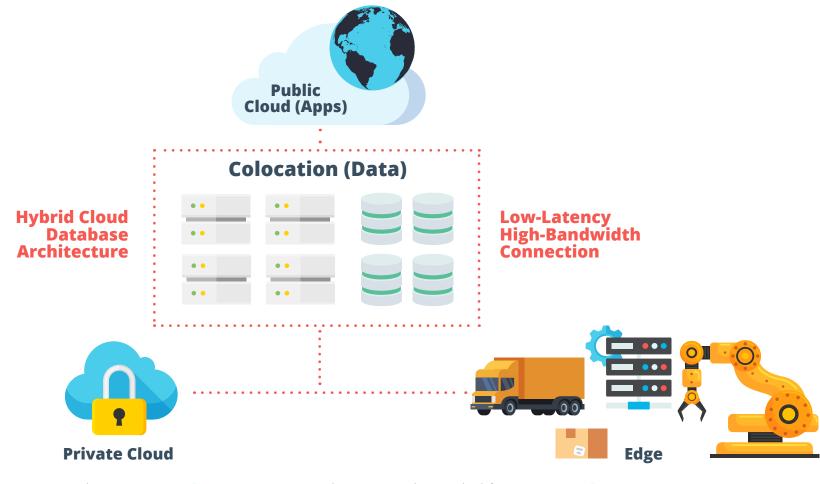


Scalable database platform to run all types of database workloads including online transaction processing (OLTP), data warehousing (DW), in-memory analytics and consolidation of mixed workloads.

Unified database platform for all workloads ensure smooth transition from core to edge and an efficient hybrid cloud strategy.



Hybrid Cloud Database Architecture



What is Hybrid?



Common architecture maintained between on-premises/private cloud and public cloud for ease of integration and orchestration



Storage and compute decoupled for running to move workload, not data, for regulatory compliance



Interconnection to public cloud compute and storage is needed for low-latency performance in hybrid cloud environment



Key Takeaways

Building a Hybrid Cloud Database Architecture





In partnership with





Cloud Adjacent Database with Equinix and Oracle

The ideal joint solution for hybrid cloud

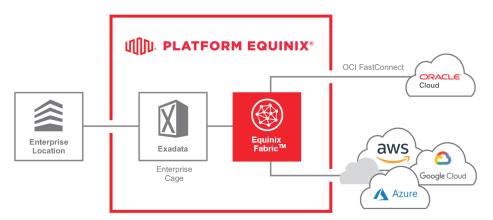
Placing Oracle databases next to cloud data centers in a cloud adjacent architecture with Oracle Exadata Cloud@Customer provides enterprises with the best of both worlds – the security and control of private IT infrastructure with the flexibility of cloud.

Equinix and Oracle offer a hybrid cloud solution for Oracle Database customers on Platform Equinix. This enables enterprise companies to interconnect an Oracle Database securely, with low-latency and high-performance, to the cloud data centers where its apps reside.

Key Solution Benefits:

For customers that cannot place their database in the cloud:

- Equinix data centers are the best place to operate an Oracle Exadata Cloud@Customer with industry leading reliability with >99.9999+% uptime
- With Equinix Fabric™ you get reliable, high-performance connectivity from your database to apps in the public clouds
- Bypass the internet with secure, direct connections via Equinix Fabric™ to public clouds
- This solution meets data sovereignty and industry compliances while helping meet your corporate cloud mandates
- This solution also helps to reduce on-prem data center footprint





See Cloud Adjacency in Action

Connect your oracle database securely to the public clouds where your apps reside



Customer Success Story

See how Fung Group has deployed this hybrid cloud solution realizing the high-performance, reliability, and security of private IT infrastructure with multi-cloud agility



Optimize your Oracle Database Migration

Reduce cost, increase performance with cloud solutions from Oracle and Equinix

