

IT Environments Today, companies have an opportunity to build their IT

Importance of Running

deployment models including their own data centers, public cloud, colocation environment, and edge locations.



Performance costs issues







· Close to data

creation/action

Low latency

capabilities

Real-time processing

- Workload scaling costs

maintenance/upgrade

· Lack of on-site IT

support

Bandwidth

dependency

Cost of

Considerations in Workload **Placement Decisions**

Edge

Locations

scalability, etc.



Workload

design and

lifecycle





Organizational

Workload

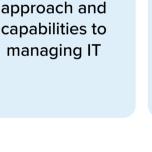
ecosystem:

application

interdependency

and criticality to

operations





Workload

migration

feasibility

Client Computing Virtual desktop, digital workspace solutions, and Distributed access

case of prescriptive regulatory requirements or corporate policies

Controlled IT environments in

Demands:

Security

Placement:

Cost efficiency

Fast data recovery

disaster recovery · Colocation facilities for mitigating public cloud data

· Cost-optimized public cloud storage services designed for

Demands:

 Data privacy **Placement:**

intellectual property Self-owned/operated environments for more

 Public cloud but with stricter protocols related to protecting

 Flexibility with accessing compute resources

 Developer-centricity Software-driven or as-code access

IP-sensitive applications

Pursuing a Hybrid Multicloud IT Strategy

A hybrid multicloud IT strategy is the best way to achieve

the strategic advantages of optimized workload placement.

To be effective in the long term, a hybrid multicloud

IT strategy requires the following:

A set of management tools for cloud and non-cloud environments across various locations

of various deployment environments

A total cost of ownership (TCO)

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A data security, data privacy, data protection and governance framework

An analysis of the service quality characteristics

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A financial analysis of cloud and IT Ops (FinOps)



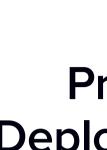
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Workloads in Appropriate infrastructure utilizing not only a broad range of system products but also a variety of IT

Unexpected Interoperability





- Unforeseen security events Regulatory compliance violations, etc.

Pros and Cons of IT Deployment Environments Most IT decision makers foresee running enterprise workloads in hybrid multicloud environments. Cons · Data center costs Infrastructure control Infrastructure Security control Self-owned/ upgrade cycles Operated Governance control Shortage of IT skill set Data centers Flex consumption/aaS longer cycles for launching new workloads Data center support/management cost savings Lack of on-site IT support Colocation Enhanced physical Lack of control over **Facilities** security data center components Control over infrastructure Public cloud adjancency aaS consumption Service Data transfer costs catalog/application Security concerns **Public** ecosystem "Shadow IT" Cloud Distributed access Workload • Ease of scaling up/down interdependency/ Agility interoperability issues

Technical



Policy/regulatory

requirements



Performance Intensive

Workloads (PIC):

data analytics, artificial

learning, modeling and

simulation, and some

workloads

Demands:

Connectivity

Placement:

Public cloud

Edge locations

Application

Testing

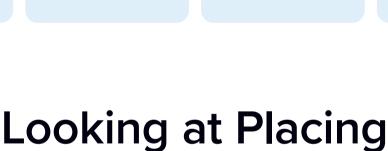
Development and

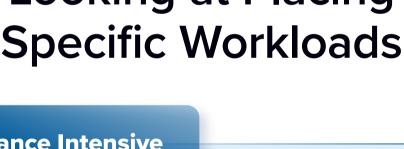
working culture

Adjustment to company's

intelligence and machine

engineering and technical





 Consistent performance Data security · Predictable costs **Placement:** Fit-for-purpose

Demands:

due to security and costs

 Tiered placement Start in public cloud

 Consider self-owned/operated environments for production

client applications

- **Cyber Recovery:** data protection, business continuity and resiliency