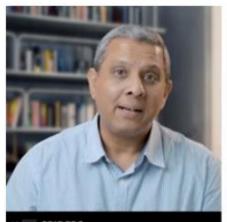
Module 4 - Cloud Attributes, Managed Services & Deployment Models



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Cloud computing attributes



Choice of provider - Based on business need and partnership models. Market competition is good for consumers as it avoids monopoly



Agility, OnDemand, Self service

 Procurement latency is not longer a barrier



Resource pooling - leverage economies of scale for cost reduction

Resilient, Elastic & Subscription - build

architecture to sustain failures, no need to

plan infrastructure ahead of time based on

speculation & convert capex to opex



Admin & Monitoring - being proactive is better than reactive



Core data center services -

Compute, Storage & Networking, focus more on business rather than data center operations



Managed services - hosted managed services allow developers to focus on core applications with business logic, support services become an API call

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greatlearning Learning for Life

Cloud offerings



Elastic Infrastructure



Elastic Platform



Node-based Availability



Environmentbased Availability



Hypervisor



Execution Environment







Map Reduce Block Storage Blob Storage











Key-Value Storage



Strict Consistency



Eventual Consistency



Virtual Networking



Messageoriented Middleware



Exactly-once Delivery



At-least-once Delivery



Transactionbased Delivery

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Module 4 - Cloud Attributes, Managed Services & Deployment Models



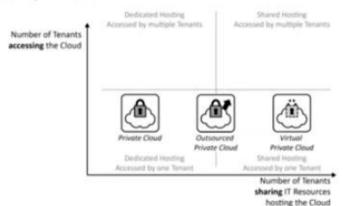
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Cloud deployment models

Private

- Cloud computing properties are enabled in a company-internal data center
- Alternatively, the Private Cloud may be hosted exclusively in the data center of an external provider, then referred to as outsourced Private Cloud
- Public Cloud providers also offer means to create an isolated portion of their cloud made accessible to only one customer: a Virtual Private Cloud (aka Private Networking) which is the default behavior for many public cloud providers



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