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PART-A

Cloud computing:

In cloud computing, the client does not have to buy the resources and manage thing. Instead, the provider provides the provider as a Service which is much chapter.

Essential characteristics:

* On demand self services

* Resource pooling

* Hearwed service

d. Infrastructure as a Service (Iaas): resources

of Virtuel mechies

* In memory (RAM) storage

or Disk Horage

ok Network devices

3.

Resource consolidation and Virtualization:

- * It reduces network troffic
- * It allocates resources more efficiently
- * Reduces maintenance costs
- * Scaling of applications is easier

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Hypervisor.

It is a virtualization software used to divide and allocate the sessurces on various pieces of herdware.

- of It superates the host herduran from the guest user
- * Resources are divided officiently
- of Allows for multiple guest OS es

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Cole components of cloud computing:

- * Cloud Infrastructure
- * Storage
- * Security
- & Management
- * Internet
- ox Application
- * Client Infrestructure

Public Cloud Chellenges:

- * Controlling Costs
- * Data privacy and security
- ok Resource protection
- * Compliance

Private cloud challenges

- * Huge investment
- * IT reluctance

Microsoft Azure Security services

- Azerre Active Directory
- * Azure Key val vault
- * Azure Security & center

8. Solution for data security.

- Adequate use of encryption
- * Attribute Based encryption
- * Anonymization of Late

- 9. Cloud Migration Factors:
 - * Buriness goals
 - * Security
 - * Compliance
 - * Cost and ROI
 - * Disaster Recovery

10. Workload Migretion can be time consuming:

Executing a cloud strategy can be time Consuming And man many applications have to be modernized to get them migrated which again Consumes time and money.