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Ans 1 - Inter cloud resource management sufers

to coordination and efficient utilization of susoneus accross multiple claid environments.

L) (a) Lord Balancing

Cb) cost optinization Cc) Ruilieuce and Scalability

=> examples of multi-closed resource optimization for retail correpany -

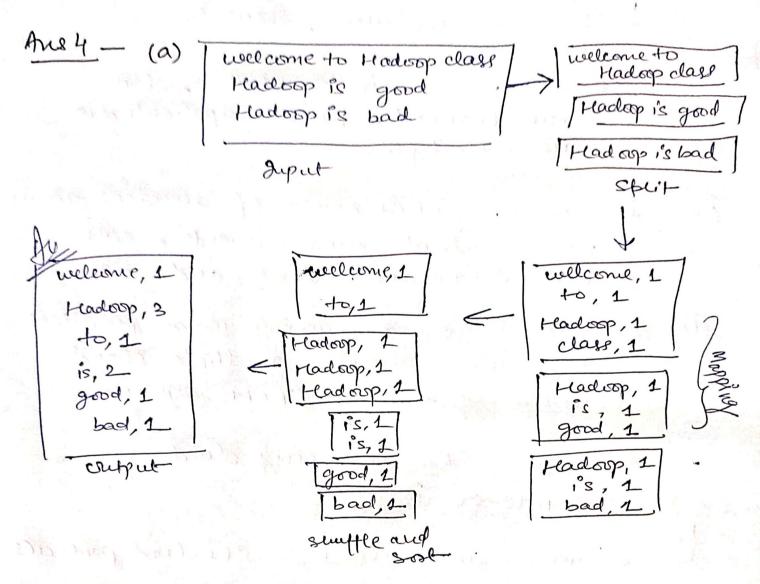
- 1 Aws et andared operations due to its strong global pressure and support.
- ② Google cloud platform seuvering ML algo and model that analyses.
 - 3 Microsoft Aruse data storage and disalter secoury.

1 Static resource provisioning — fixed capacity, manual danger, etable vookloade.

- Dynamic resource planning automatic adfurbment, cost efficiency, cloud nature applications
- (3) on demand delsower provisioning- real time resource allocation

- (4) Auto Sealing nees applications (5) over provisioning and elastic provisioning Vs Dynamic Processioning 3 Statice Bourghoning 1. Dynancie resource 1. Fixed resource 2. Highly scalable 2. Not Scalable 3. Automatically 3 Requises manueal managed. adjustment 4. Cost encoase 4. cost efficient 5. Unpsedictable workload. 5. Predictable workloads
- Ans 3 Major security shallenges -
- Data beeacher for both CSPs and wess.
 Unauthonized access to sensitive information
 can lead to financial loss, legal issuel.
- Diseifficient Identity and Access Management for controlling who can access cloud sessiveles.
- 3) gresewee APIS used in cloud eurisonment for intereaction between sources, it can lead to Devial of Securce.
- 4 Data 1088 occure dere to accidential deletion, updation or disaster
- (5) Compliance and legal lisuel "GPPR, HIPAA,

6) Lack of visibility and control - making it difficult to monitor and respond to security sucidents effectively.



(b) Similarly, final dialeonary:

if, 1
you, 2
notice, 4
+ this, 2
will, 1
is, 1
not, 1
worth, 1
noticing, 1

Ans 5 - Four levels of Federation:

- 1 Infrastructure enavning plujs ical and vistual diffrastructure reconverse Li resource sharing, security.
 - 2) Platform can in corportate. Parle environments voluse applications arec developed.
 - 3 Source entegration of sources across vocious cloud emissonments, can achieved thorough APIs and SOA.
 - 4) Identity on managing user identities and access accours multiple christ using federated (FIM) systems.
 - 7 ruis leads to enhancing cloud
 - L) seamless entegration, standard protocolo (REST, SDAP), unified escrevience.