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## 80-tneungi22A TOT

1) what do you muan by IDT cloud computing? List & explain the various computing enabling technologies.

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Ans) cloud computing ryens to manipulating configuration and accessing the hordulare & configuration and accessing the hordulare & configuration and accessing the hordulare & could computing is platform independent, mobile a confuting is platform independent, mobile a confuting is platform.

various doud computing enabling technologies are:

Oristualization: The process of sharing single physical instance of sharing single physical instance of multiple application or resource among multiple dents. Multitement anditecture with virtual isolation.

2) Service Oriented architecture: 50A access on-dimend arous organizations to access on-dimend about based computing solutions according to the charge of business rudge.

(3) Guid computing: Also known as distributed computing. It is a processor architecture that combines various anchitecture that combines from different computing suspenses from multiple locations to achieve a multiple locations to achieve a common goal.

- (4) Utility computing: provides on-demand computing susperus and infrastructure tomputing susperus and infrastructure Dased on the pay per use meeting. The minimizes cost & measinises efficiency
- 2) what are the important components of cloud computing?

Ans) Important components of cloud computing are: - (a)

- 1) client infrastructure: front end company that provides a WI.
- 2) Application: can be any software or platform that the client wants to access.
- 3) service: manages which type of survice you can access according to the dient's uquirements. [SAAS 1 PAAS / IAK5]
  - A Rustinue cloud: Offers the executions & suntinue environment to the virtual machine.
  - 5 Stopage: Persuides a large amount of storage capacity in cloud to manage & stotue data.
- (3) Infrastructure: Includes hardwater b software components like serveres, storafe, morrock duries, vistualization services b storage preserves.

- application, service, surfine, storage, ingra, and security in the backerd. Establishes co-ordination blu them.
- Deurity: implementation of different mechanisms for secure doud systems, mechanisms for secure doud systems, susually to the end-user.
  - 9 Internet: connection as the bridge or nucleum between spontend & backend. Allows you to communicate the front-end & back-end.
- 3) Differentiate selve clasticity and scalability.

  Ans) Exasticity vs scalability:

Used to fulfil the sudden (i) Used to fulfil static requirement in the boost in the workload workload for short period

Prycored to satisfy the (ii)
dynamic modifications,
where previous ausourus
car improve one on

prejerred to handle growth in the norkload in an organization

Utilised by Amall enterprises whose work -Lord enpands only for a shoot period. Utilised by big enterprises

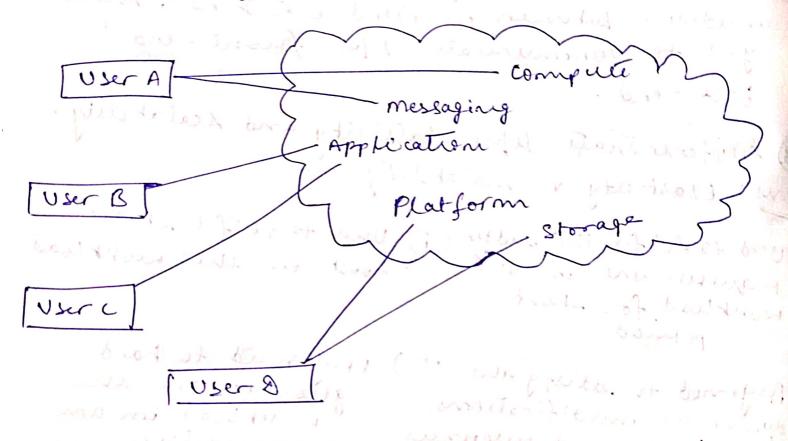
Short term event (in) long term event

(1) Emplain different deployment models of cloud computing in detail with diagram?

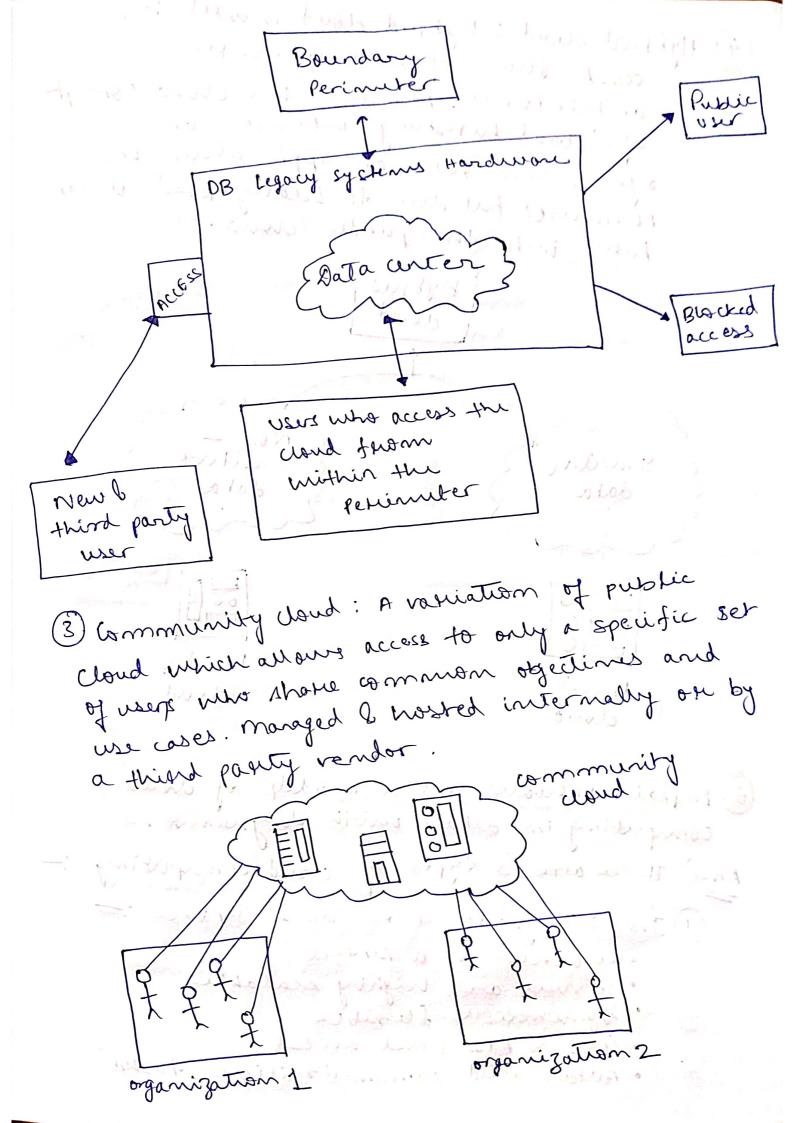
Ans) There are 4 types cloud deployment models:

1) Public cloud: used by organizations.

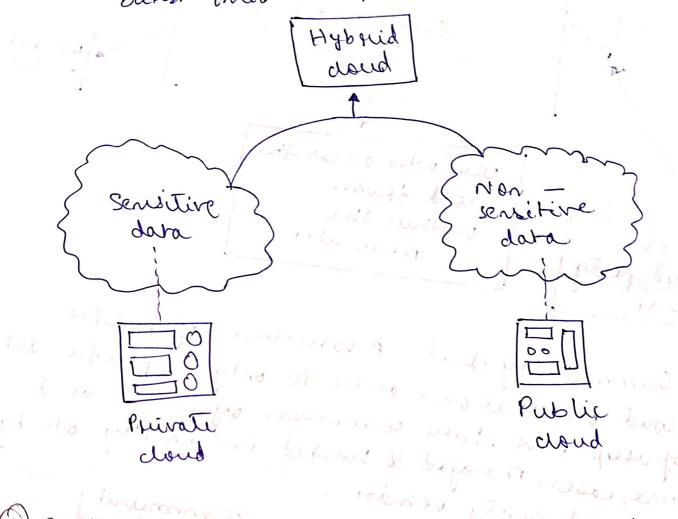
1) Public cloud: used by organizations with growing & fluctuating alemands. Used by organizations with Low security concerns. Requires minimum investment.



Deprivate cloud: Private cloud is used by big organizations with multiple mission control processes. Cloud will be integrated by providers with your data certer and is managed by your IT teams. Provides letter cost efficiency and greater control over data and susousces.



Hybrid cloud: hybrid cloud model is a combination of two or more architectures. Also uses the cloud concept of 'cloud bursting' wherein an organization suns an application on Purmises but due to heavy load it can burst into the public cloud.

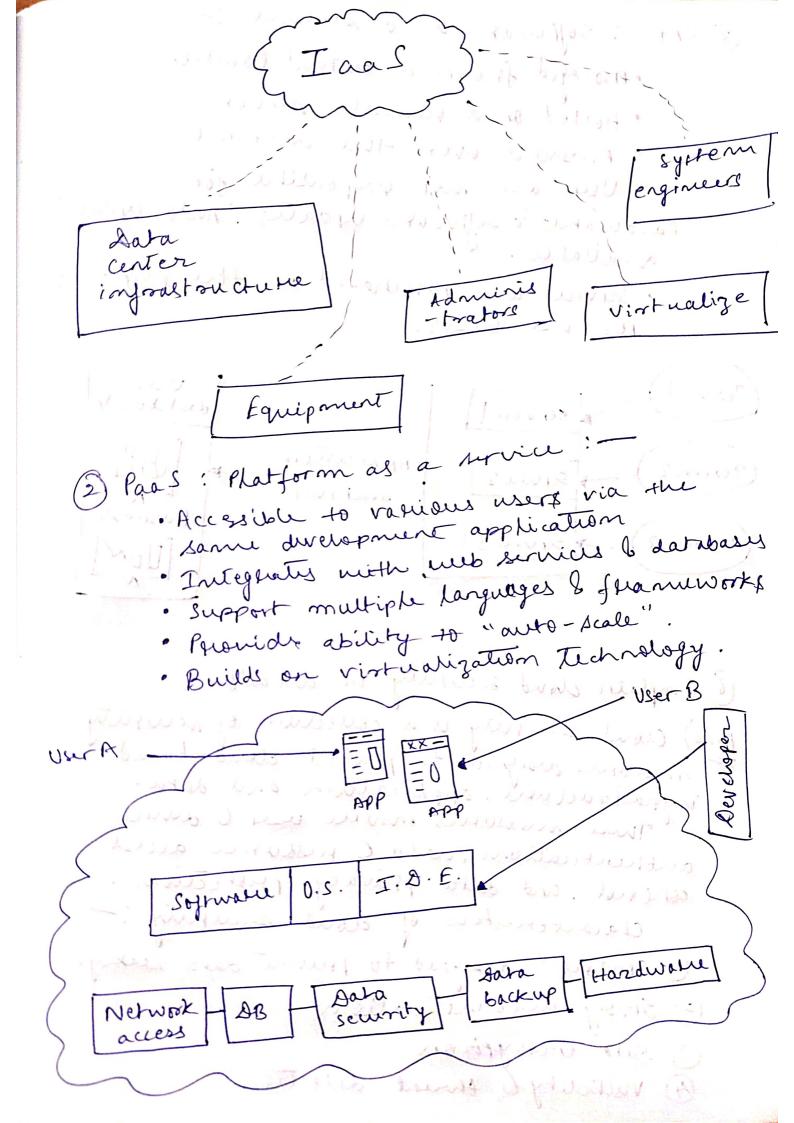


(5) Enplain various service models of doud computing in detail with diagram.

Ans) There are 3 types of doud computing:

1) Ias: Injoustouture as à service:

- · Resorbius as a service
- · services are highly scalable
- · Dynamic I flesible
- · auI & AtI based access
- · Automatud administrative tasks



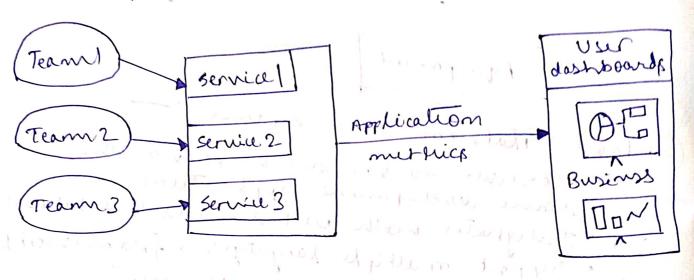
- 3) SAAS: Software as a service!—

  · managed from a central bocation

  · Hosted on a siemste server

  · Accessible over the internet
  - Lardwater & software updates. Auto update.

· Services are purchased on the pay-as, per-use basis.



( Englain cloud scarrity in details.

Ans) Cloud security is a collection of society measures disigned to protect doud-based infrastructure, application and data.
There measures ensure user & device access authentication, data & privacy protection.

Characteristics of cloud security. -

2 strong authentication

3 Dara encryption

4) Visibelity & threat detections

(5) Continuous comptioned
(6) Integrated security

-> Benyitz of cloud security:

(1) Lower upt nont costs
(2) Reduced orgains operational and administrational enpenies.
(3) Incheased subsibility & availability
(3) Incheased subsibility & availability
(5) Greater erre of scaling
(6) Amproved ADOS protection