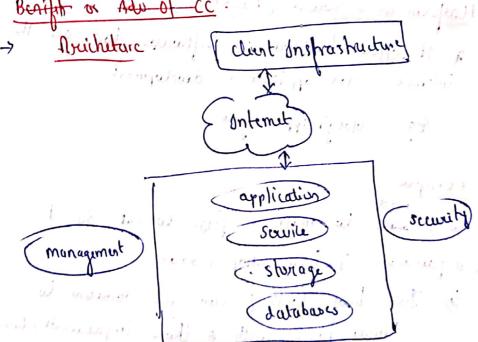
Cloud Computing frequency

cloud Computing, Cloud Computing outer to delivery of Computing Services - such as surver, storage, databases, networking, software de over internet to offer faster innual invovation, fluible resources.

(on

Cloud Computing means storing & accoming the data and programs on rumote sources that are hosted on internet instead of the computer's hard deciver or low drive the the wind was



Usus Benefit Adu of CC

- → Data Storage
 - Data barrier
 - - flezibility
 - Accessi bility
 - Effective data management
 - less Cost
 - Scalability

Types of cloud Computing: (Cloud Servin Models

Software as a servire (saas)

Delivers software applications over the internet. - It helps users to carrily access applications without having requirement of local installations Eg: Aws Ecz, microsoft azure, google workspau

2) Infracture as a Soula (Icas)

-> Pravide Virtualized Compating resources over internet such as Virtual machines, storage & networks. Eg: Aws Ecz, ms Azusc.

Platform as a sourie (Paas)

=> A' It offers hardware & software tools over the internet, for application development Eg: Google app Engine.

My own Example:

Suppose to I want lo make a pizza to cat, so, I can't purchase it from shop (saas)

is the buy took & can give someon to make pizza with a those ingredient (lows)

in) is Purchase ingredients & make on my own (Iaas)

Tools de Inquidiant) on powerded, just new we (11) ned to prepare the pizza. (Paas)

beams on siet by

Cloud Deployment Models / Types of Louds

- Private Com define how cloud somices are made available to wood of with varying (different) lends of access & Control.
 - Prublic cloud: A source previder makes resources (applications & storage) available to general public over the internet eg. Aus, minosoft agen, google cloud.
 - adu! lowis cost, no nud for hordware management
 - =) It is weful for small-medium sized businesses, startups, hosting web applications.
 - hosted services be limited no of people so it minimizes the security concerns.

 If dedicated to single organization admir. High land of security, Scalability.
 - =) Large organizations with strict occurity & uses private cloud
 - Eg: finançae (Bant) and government agencies.
- Tybrid cloud: A hybrid cloud Combines both public & private cloud envisionments, allowing data & applications to be should between them
 - adog: Flexible, cost-effective, less critical workload

 The weed by Organizations that require both

 public & private envisconments.

Cloud Paradigms: It is a fundamental approach or model for performing

Computation, organizing data, designing systems by higher luch & solving problems using computers

a bear don't

Types of cloud Porodigms:

Migh Performana Computing. In modern world of Al & me Huse region huge amount of data, it also need high performance computing. To overcome this we require high

- To performance computing which proactive larable data procusing as the princed, applied
- -> HPC aggrugate data such that advanced applications Can run efficiently, quitty.
- HPC performes at most 3 billion calculations per see

adug; - High spied a resilier !

- town cost and the sound of the sound of the sound of month

Application :- sa saina business engineering

- In miletary, hospital etc
- healtheare, media & entertainment 3 white processing the stage of the

Eq: of HPC :- Super Computer. (co made of many busilion builion (20) (computer)

ded niejer will enclosingere gd ben de designatures during 3 way

Paralle computing;

It is kind of Compuding architecture where the large problems bruck into smaller of parts & computed one by one. | Problem - | (Parts) - | Process

- It report to the process of executing scurce processors an Simutaneously.

-> A helps in faster application procession of

- A

applications: => 5 cience & Engineering

- a) Database & Data mining
- Multimedia
- ⇒ advanced graphics.

advantage: , Meutitasping , multiple tasks are performed

- simultaneously)

 -) Saw time of money
 - > reduces complexity

3) Distaibuted Computing

- Dec a Distributed Computing rejous la use of multiple interconnected about envisionment, spread across Various geographial locations or data centous, working to gether to deliver somices such as storage, computing power, networking
 - They are not located in a single data Center but instead distributed acrow multiple regions.

ryu my chaterr Notes