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Cloud Computing

the internet. (present at remote rocation).

In Simple terms,

It means storing, managing and accessing the data & pragrams on the remote Servers that are hosted on internet instead of computer's hard drive

cloud computing is the on-demand availability of computer System resources, especially data storage/ cloud storage & computing Power) without direct active Management by the user.

In shout,

ule store, manage & process data on remote Levuers.

Service Peroviders: -

-Google cloud

- AWS (Amezon Web Services)

- Microsoft Azure

- IBM cloud

- Alibaba cloud , etc

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Types of cloud: -

- 1) Public: accessible to all.
- 11) Private: Services accessible within any organisation.

 111) Hybrid: public + private cloud features.

 11) Community: Services accessible by a group of
- organizations.

characteristics of cloud Computing

- a) On demand Self Service: means that a consumer can request à releine access to a service offering, without an administrator or some sort of support staff having to fulfill the request Manually.
- b) Broad retwork access: 1.e. the Services any type of device). I.C., anywhere access & anytime.
- Resource Pooling: resources can be storage. Memory, network bandwidth, virtual machines. i.e. it can be any service which can be consumed by cloud users. susource pooling means that

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multiple customers are serviced from the physical resources.

- 1> Measured Survices: pay according to the Services you use.
- e> Rapid Elasticity & Scalability: One of the great
 things about doud computing is the ability to
 quickly provision resources in the doud as
 the organizations need them, (& then to remove
 them when they don't need them).
 - f> No Maintainance / easy maintainance :-
- g> Security: Copy of our data on various Sumers.

 If 1 fails, data in is safe on the other.

Advantages: -

i) Cost efficiency: The biggest reason behind companies shifting to cloud computing is that it takes considerably lesser cost than any on-premise technology. Now, companies need not store data in disks anymore as the cloud offers enormous storage spaces,

Saving money and resources.

- ii) High speed: cloud Computing lets us deploy
 the Service quickly in Jewer clicks. This
 quick development lets us get the resources
 required for our system within minutes.
- iii? Excellent accessibility: storing information in the cloud allow us to access it anywhere and anytime regardless of the machine making it a highly accessible and plexible technology of the present times.
- iv> Back-up and vestore data: Once data is stored in the cloud, it is easier to get its back-up and vecovery, which is quite a time consuming process in on-premise Echnology.
- V) Mobility: employees working on-premises or from remote locations can easily access all the cloud services as long as they have an internet connection.
- VI) Collaboration: It helps employees located in different locations to conveniently and

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Securely collaboration / collaborate with each other.

Disaduantages: -

- is stored on the cloud, and we access these data through the cloud by using the internet connection.
- of cloud Competing. Organizations may face problems when transferring their Services from one rendors to another. As different rendors provide different platforms, that can cause difficulty moving from one cloud to another.
- iii) limited Control: cloud infrastructure is

 Completely owned, managed, and monitored by

 the service provider, so the cloud users

 have less control over the function and

 execution of Services within a cloud

 infrastructure.
 - iv> Security: doud computing service provider.

 while sending the data on the cloud, there

 may be a change that your organization's

 information is hacked by Hackers.