

Vivekanand Education Society's Institute of Technology
Department of Computer Engineering



Subject: Cloud Computing

Class :- (CMPN) D12

Semester :- VI

Div. :- A

Roll No: 56	Name: Meet D. Patel		
Exp No.: 1	Title: Cloud Computing & Visualization.		
DOP:	20/01/2022	DOS:	21/01/2022
GRADE:		LAB OUTCOMES: LO1	SIGNATURE:

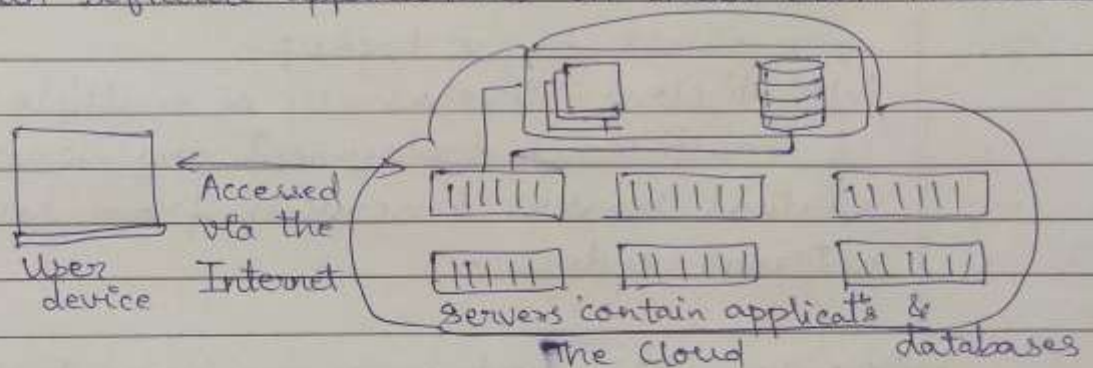
Cloud Computing Lab

* Aim: To study cloud computing and visualization.

* Theory:

Terms in Cloud Computing

1. Cloud: "The cloud" refers to servers that are accessed over the Internet, and the softwares and databases that run over those servers.
2. Cloud Computing: The cloud servers are located in data centers all over the world. By using these servers i.e. by cloud computing users and companies do not have to manage physical servers themselves or run software applications on their own machines.



3. Virtualization: It allows creation of a simulated, digital-only "virtual" computer that behaves as if it were a physical computer with its own hardware, also referred as "virtual machine". This makes cloud computing possible.

4. Types of cloud computing deployments:

Based on where the cloud servers are and who manages them, the most common cloud deployments are:

i) Private cloud: is a server, data center or distributed network wholly dedicated to one organization.

ii) Public cloud: is a service run by an external vendor that may include servers in one or more data centers shared by multiple organizations. Using virtual machines, multiple tenants are renting server space within same server.

iii) Hybrid cloud: these combine public & private clouds and may even include on-premises legacy servers. An organization may use their private cloud for some services and their public cloud for others for e.g. backup.

iv) Multi-cloud: involves use of multiple public clouds i.e. multi-cloud deployment organization rents virtual servers & services from several external vendors.

→ Advantages of cloud computing are: Back-up and restore data, improved collaboration, excellent accessibility, low maintenance cost, mobility, I Services in the pay-per-use model, unlimited storage capacity, data security.

→ Disadvantages of cloud computing are: need good internet connectivity, vendor lock-in, limited services control, and fear of security breach.

Meet D. Patel
D12A 56

Conclusion:

We have successfully studied and learnt the concepts related to cloud computing like cloud, cloud computing, virtualization, and types of cloud deployments and its advantages-disadvantages.