

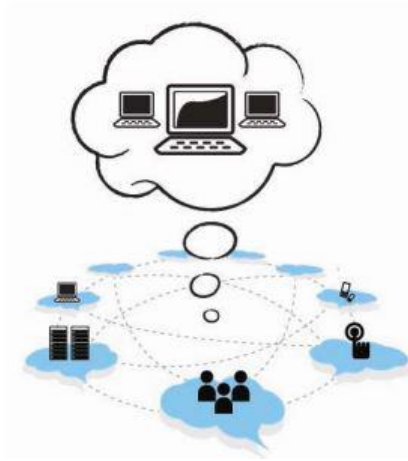
# Telemedicine

30 Jan 2017

Class 12

# Set of rules

- Questions in exam can be from any topic discussed in the class
- TA Marks:  $((50\% \text{ attendance} + 50\% \text{ CT marks}) / \text{highest}(50\% \text{ attendance} + 50\% \text{ CT marks})) * 20$
- If your attendance is more than 75% then only I will consider your complaints
- Answers in exam should be in inc or dec order with **keywords**
- You will not get even one mark without justification



# Cloud Computing

## Cloud Computing

# What is Cloud Computing?

Distributed computing on internet Or delivery of computing service over the internet.

Eg: Yahoo!, GMail, Hotmail-

Instead of running an e-mail program on your computer, you log in to a Web e-mail account remotely. The software and storage for your account doesn't exist on your computer -- it's on the service's computer cloud.

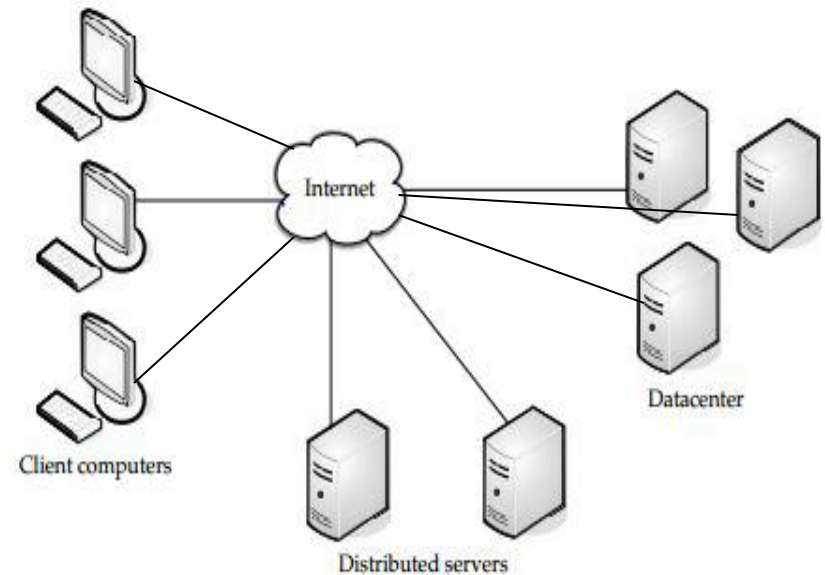
# History

- Concept evolved in 1950(IBM) called RJE (Remote Job Entry Process).
- In 2006 Amazon provided First public cloud AWS(Amazon Web Service).

# Cloud Components

It has three components

- 1.) Client computers
- 2.) Distributed Servers
- 3.) Datacenters



# Clients

Clients are the device that the end user interact with cloud.

three types of clients:

- 1.) Mobile

- 2.) Thick

- Servers, Workstations

- 3.) Thin (Most Popular)

Virtual Desktops, Screen sharing

# Datacenter

It is collection of servers where application is placed and is accessed via internet.

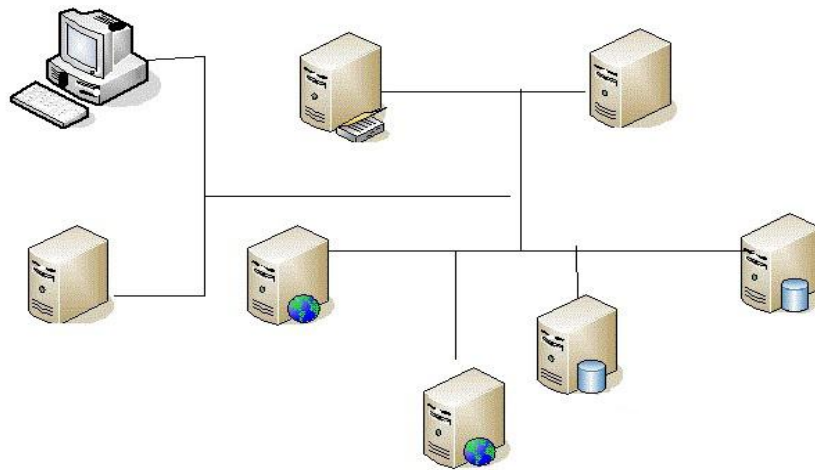






# Distributed servers

Often servers are in geographically different places, but server acts as if they are working next to each other.



# Central Server

- It Administers the system such as monitoring traffic, client demands to ensure everything runs smoothly.
- It uses a special type of software called **Middleware**.
- **Middleware** allow computer to communicate each other.

# Service Models

- SaaS(Software as a service):
  - Required software, Operating system & network is provided.
- PaaS(Platform as service):
  - Operating system and network is provided.
- IaaS(Infrastructure as a service):
  - just Network is provided.
- MBaaS(Mobile “backend” as a service):
  - web app and mobile app developers are provided with a way to link their applications to cloud storage and cloud computing services with application programming interfaces (APIs) exposed to their applications and custom software development kits (SDKs)

# Deployment of Cloud Service

- Public Cloud
- Private Cloud
- Community Cloud
- Hybrid Cloud(Combined Cloud)

# Why cloud service is popular?

- Reduce the complexity of networks.
- Do not have to buy software licenses.
- Customization.
- Cloud providers that have specialized in a particular area (such as e-mail) can bring advanced services that a single company might not be able to afford or develop.
- scalability, reliability, and efficiency.
- Info. at cloud are not easily lost.

# Application

- Social Networking sites.
- E-mail sites.
- Search Engines.
- Many more services OVER THE INTERNET.