

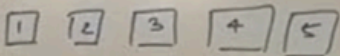
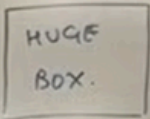
What is the Cloud?

- The cloud refers to a network of remote servers hosted on the Internet that store, manage, and process data. Instead of storing information on your own computer or local servers, you can access it online through these servers. This means you can use applications, store files, and run services from anywhere with an internet connection without relying on your hardware. It's like renting space or services on someone else's computer and accessing them online.
- Or a Set of computers which can be accessed over the internet using some remote login for various purpose.
- **The cloud is a distributed collection of servers that host software and infrastructure, and it is accessed over the Internet.**

Vertical Scaling - Buying a Bigger Machine (increase CPU, RAM, ROM)

Horizontal Scaling - Buying More Machines

Difference between both

HORIZONTAL	VERTICAL
	
1. LOAD BALANCING REQUIRED	1. N/A.
2. RESILIENT	2. Single point of failure.
3. Network calls (RPC)	3. Inter process Communication.
4. DATA INCONSISTENCY.	4. Consistent
5. SCALES WELL. AS <u>USERS</u> INCREASE	5. Hardware limit.

The reason for every point in vertical scaling - only one machine exists.