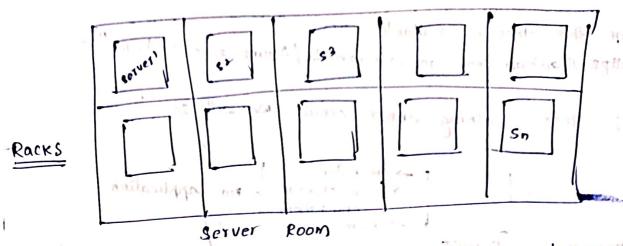
DAY-1 UNDERSTANDING CLOUD CONCEPTS, WOCABULARY AND TECHNITERMINOU \* Repo for this class is available on. " https:// github.com/iam - vecramalla/Aquie - xcro-to-hero" > Eloud :- Before talking about cloud, we will see . --> computer -> local storage & runs application cpu + mem Server peveloper when a developer develops code, it will be in his local, he has to deploy the app in the server, so that users can access. unlike the advanced features of a laptop we use it has epu, mem, storage to run applications. 10 years Back -> google/yahoo -> they used to have dedicated system administration Itam whose responsibility is to procure these. Even now, IBM/hp sell these Servers .... for example, 10 years Rack, google has multiple products like, gmail, -) The system administrators in google used to maintain multiple servers so, when people Searches for NNN. google. com, Response is not as server ) fast as we see it now, it was late. system administrators used to connect the servers to high the sexuers. data transfer cables & switches & from there all the servers get connected to the router.

High data transfer cables

High data transfer switches

these servers vare used to placed in nacks by mystem administration



- -> They are connected with routers, switches, cables.
- -) This entire setup is called as "Data center".

let's say, It is google Data center, Developer x is from google.

Developer X wants to deploy an app on one of the Servers which is of their own, then system administrator will check on which server is free & matches Requirement of a server, then developer he will give the Server details.

This is called as "private cloud

> Aws from Amazon offers datacenters which is Amazon's own.

Ne can Request vm from Aws, this usage is called <u>Public</u>

cloud

This resolves problem like system admins have to take care of private cloud servers, maintainance, electricity providing continuously public cloud came into picture. (acp, Azurc, Aws) -> cloud providey

-) The company which uses public cloud, also has private cloud.

virtualization; — Installing Hypervisor on a server, then that

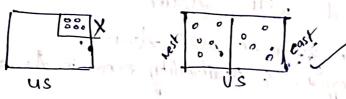
Virtualization) — Inclalling Hypervisor on a server, then that server logically isolated into multiple servers, the each server is called as virtualization.

API: - Accessing the cloud platform programatically: .

Eg: - Accessing Azure via golang code.

The other way of accessing in CLI.

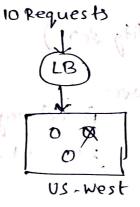
Regions: - installing dartacenters in multiple regions across the



At East ride goes down, west should be up & running,

Availability zones: - Data center is also called as Availability zone.

wad balances: when were accurring appincreases app shouldn't go down or, go slow, we put LB before accurring server.



LB sends 5 requests to one vm, 5 to other if one of the 3 is down. In that way, LB worky.

scalability; - make your applications scalable. Means, in the above example one of the vm down means, I million Requests coming to the app means, the LB automatically deploys the app in vmu, vms, it creates automatically, this is called Autoscaling.

If we do the same process manually, It is called manual scaling.

High availablety: - make your application highly available. Make it available most of the times. Et: - Anstagram is available most of the times. Et: - Anstagram is available most of the times, rarely it goes down. irete app night times, It won't work properly. It is not highly available.

Disaster Recovery: - (BR) -> It is a planfaction if something goy wrong. If app is down, we should have Rackup plan to make it up & running.

HI & MUTTO

- odo so

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