Lec 03 !- CAP Theorem | Back of the Envelope calculation |

monolater v/8 microservice Architecture.

Peechele lec hum Sable Jayda focused the "Scalability" he

"Scalability" he

(To humne Destributed System le achieve

(can thi

To aaj hum in "Distributed System" ex famons

theorem (CAP Theorem) Ka padhenge.

CAP
"Vilonsentency

Availability

Partition Tolerence

PTO

Scenamo

(db1)

(db2)

(db3)

Teeno mai same data h,

To agan del mai data write!

update hotal to unse

no changes to del aux

des to thismapadyer

Same for del and dels.

C-s Consistency

-> client gets the same data, at the same time

no matter the note (db)

(mottab dient Chahe kerni blu db (db1, db2, db3) king'se blu data le, une Sam data hi mule.

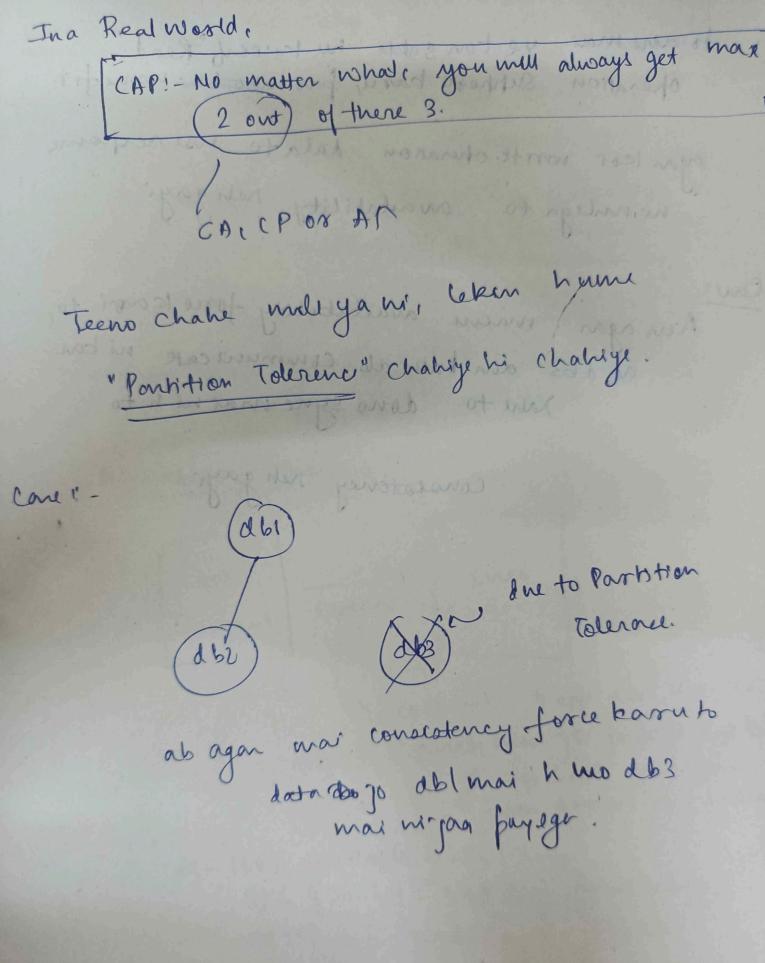
A-Avaliability
whenever dient sends req. he gets a
sesponse.
Terrespective of consistency.

p-stontstron tolerence.

- our application should always he wh.

(Ausays Operate)

mattab game agan Ab3 bound hoga to fro bhi System fad naa kare.



to ame mai ye kon sakta me ki'sky "Read" operation Suppost karu, par mula blu nome fir.

agan koi norste oberaron dalato use response no mulega to availability religação

Con!
Auragan main availability force learni to,
as db3 aur baki dle communicate ni kan
habit to dono syne mai ni h to

consistency reh gays.

services of englishment

of signal ways for the state of the state of

Edd and A inneller of models.

The second second

consistency VIS Availability

Consistency: Response (up to date mandatory)
eg: bonnes.

Avoidability-, Response (up to date ophionar).

(Always get mondatory)

Donntime of an Application

App (Intgran) contract happan merke beech mar jo batata hak kir ge app & aan mai kothe ye app & aan nai kothe ge app & aan nai kothe baan donn reh Lawah.

291. 100°/. ovadable -> 365 days down rakegn 99°/6 0/365 dy = 3.65 days down rakegn 99.9°/6 -= 8.77 men down y 99.9°/6 99.99°/6 99.99°/6 To humlog availability to

"no. of 9"s "mon represent barte h.

Tithe 9's aapke form ke affe hogi, who aacha

aux ersi to kelde h availability numbers.

Back of the Envelope Calculations

Window

vorter as si

herel we

wind your down on the besty

12 1 Sect John

nh to English too

Say too by

Jerse