

Cap Theorem

- · Basic and one of the roast irroportant concept in Distroibuted databases.
 - CAP:-
- · Consistency: All modes sees the desame
- · Availability: The system remains operational
- · Partition Tolerance: When a distributed system encounter partition, means break in communication between models. If a system is partition tolerance, the system does not fail. The system must replicate records to ensure this.
 - CAP Theorem & ays...
 The CAP theorem States that a distributed
 System con only provide two of three
 properties define above. It could be either
 Consistent or Ayailable. It's a trade-off
 between these two features.
- CA Databale 4

 Consistent and Available database.

 CA database are not fault tolerance, as partitioned are bound to happen in distributed system.
 - . It could only possible if only one seemen contains all the database. But it is not very proticely use. eq. MySQL on POStgreSQL.

Date y Page: CP database :- 1 mol - ushood out -Consistent and Partition tolerance. When a partition occurs, the system has to turn off inconsistent model until the partition an be fixed. · E.g. : ~ Mongo DB use case: - Banking system. Sserver - Down issue ? 3 AP database: · Availability and Panktion tolerance. When a partition happens, all modes are available, but they are not updated. . leg, 1- Abache Cassandra, use case f Facebook, me value availability more than consistency. Follow Base-Property Justies. Consistency Availability Parkhon

theorem

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