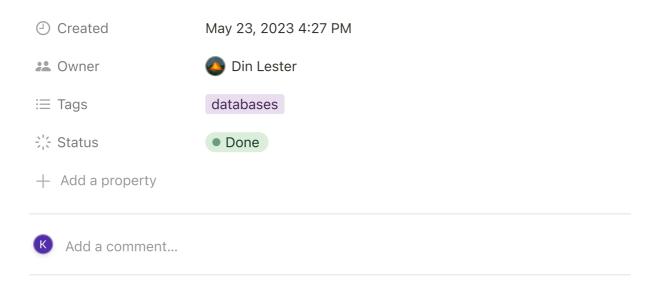
CAP theorem

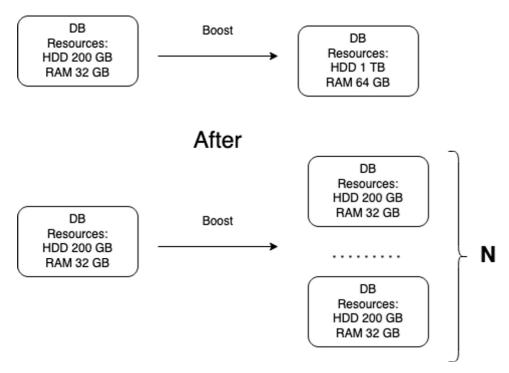


Notes

Sources:

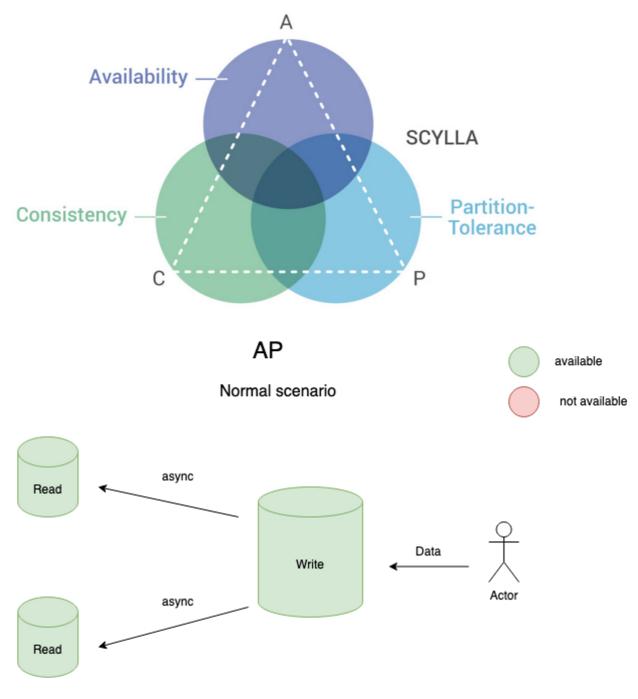
- https://www.scylladb.com/glossary/cap-theorem/
- https://www.scylladb.com/glossary/eventual-consistency/
- https://youtu.be/BHqjEjzAicA
- https://www.youtube.com/watch?v=KmGy3sU6Xw8

Before

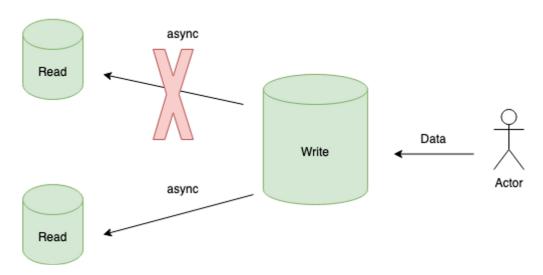


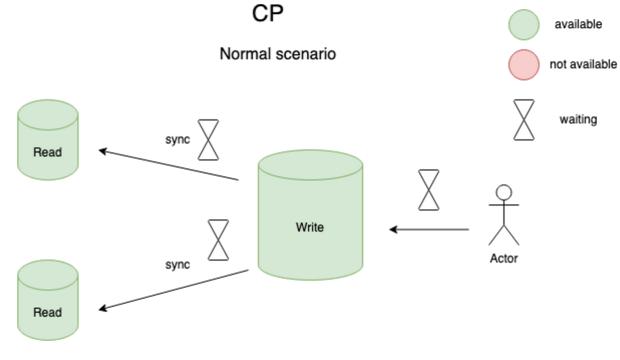
CAP Theorem is a concept that a distributed database system can only have 2 of the 3: Consistency, Availability and Partition Tolerance.

[&]quot;Cheap, Fast, and Good: Pick Two"



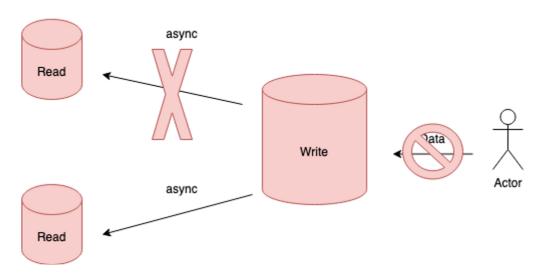
Partion happened





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Partion happened



Need to say:

- Eventual consistency (ScyllaDB, Cassandra)
- Database systems such as RDBMS that are designed in part based on traditional ACID guarantees choose consistency over availability. In contrast, systems common in the NoSQL movement designed around the BASE philosophy select availability over consistency.
- PACELC

CP - MongoDB, Redis, makes outaged cluster unavailable before it fixed

AP - Cassandra, CouchDB, ScyllaDB

