

SEMINAR 4

- What is the article about?

It describes how Pinterest split their data across multiple dbs. They used sharding, which is a database architecture.

- What requirements and design philosophies influenced the final solution?

Requirements : Scalability and stability (their system needed to be stable and scale to the moon; Accessibility; Data consistency; Design philosophies: no db joins, foreign keys. Support for load balancing. All data is replicated and each object has a unique identifier.

- What are the relation between a MySQL instance, a database, and a shard?

Each SQL server is replicated to a backup host in case the main fails. The main servers can read/write to the master and each instance can have multiple databases for redundancy, therefore each db is a shard of the actual data..

- What was ZooKeeper used for?

It sends config data to the services that keep the shards. If data needs to be moved for example. If a master dies, it is promoted and a new slave is created.