

Week 4

① Topics to be covered → Google Cloud Storage, Bigtable, SQL & Spanner.

→ Diff apps & workloads require different storage database solutions.

② Cloud Storage

→ obj storage [unlike file storage or block storage] has keys called URLs.
Used in web technology.

→ Cloud storage is like obj storage but better.

→ Obj storage is immutable, a new version is created in every edit.

→ Cloud storage files are organised into buckets.
(objects)

2.1 Cloud Storage Interactions

→ Multi-regional, regional, Nearline, Coldline
(daily) (3 times a week) (Once a month access) (Once a year).
(like archives)

→ Cost decreases.

2.2 Cloud storage is like Amazon S3 & AWS Glacier.
(Frequent access) (Cold storage)

③ Cloud Bigtable: → Google's NoSQL bigdata database service.

* Used in Maps, Search & Gmail

④ Cloud SQL and Cloud Spanner

→ Cloud SQL is managed RDBMS,

→ Offers MySQL, SQL & PostgreSQL.

→ Cloud Spanner → Specifically for horizontal scaling.

⑤ Cloud Datastore is also a NoSQL DB which is horizontally scalable.

→ Offers Transactions (unlike Bigtable) -
& lets you do SQL like queries.

* Cloud services 3, 4, 5 are like Amazon RDS and Amazon Aurora.

End of week 4: