

Day 15/100

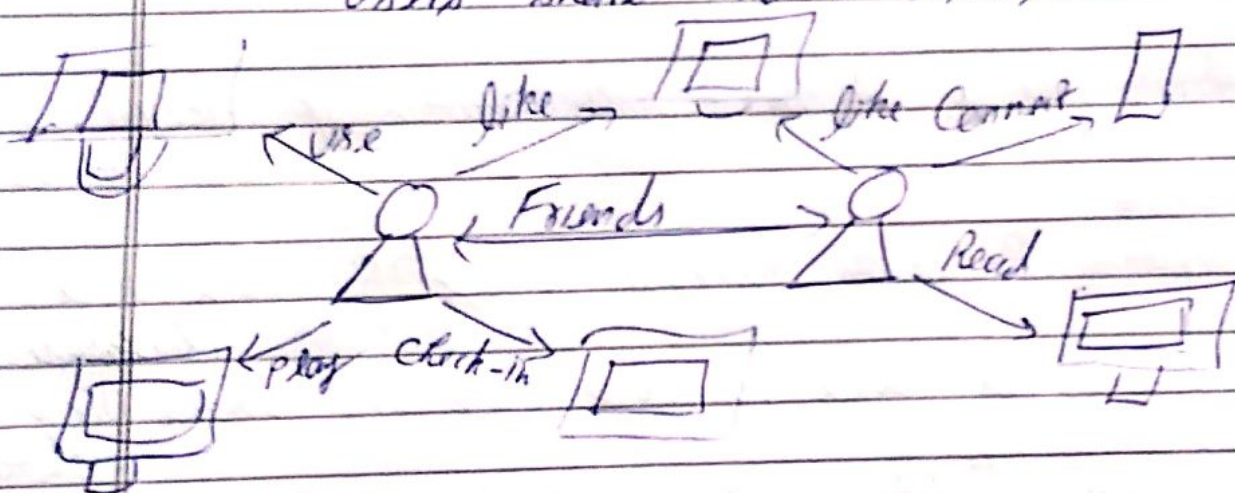
Date: 18/12/21

DocumentDB.

- Aurora is an "AWS - implementation" of PostgreSQL/MySQL
- ~~Dynam~~
- DocumentDB is the same for MongoDB (which is a NoSQL database)
- MongoDB is used to store, query and index JSON data
- Similar "Deployment Concepts" as Aurora.
- Fully Managed Highly grows in increments of 10GB up to 140GB
- Automatically scales to workloads with millions of request per seconds

Amazon Neptune

- Fully managed graph database
- A popular graph dataset would be a social network
 - Users have friends
 - Posts have comments
 - Comments have likes from users
 - Users share and like posts



- Highly available across 3 AZ, with up to 15 read replicas
- Build and run application working with highly connected dataset - optimized for these complex & hard queries
- Can store up to billions of relations & query the graph with milliseconds latency

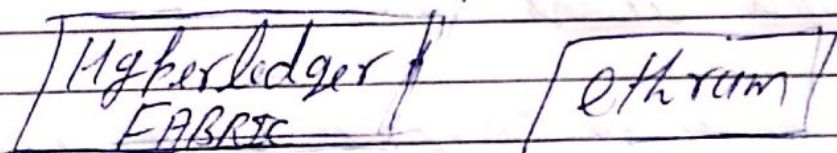
- Highly available with replication across multiple AZ
- Great for knowledge graph (Wikipedia), fraud detection recommendation engines, social networks

Amazon QLDB

- QLDB stands for "Quantum Ledger Database"
- A ledger is a book recording financial transactions
- Fully Managed, serverless, High available, Replication across 3 AZ
- Used to review history of all the changes made to your application data over time
- Immutable System: no entry can be removed or modified, cryptographically verifiable
- 2-3x better performance than common ledger blockchain frameworks, manipulate data using SQL
- Difference with Amazon Managed Blockchain: no decentralization, in accordance with financial regulation rules

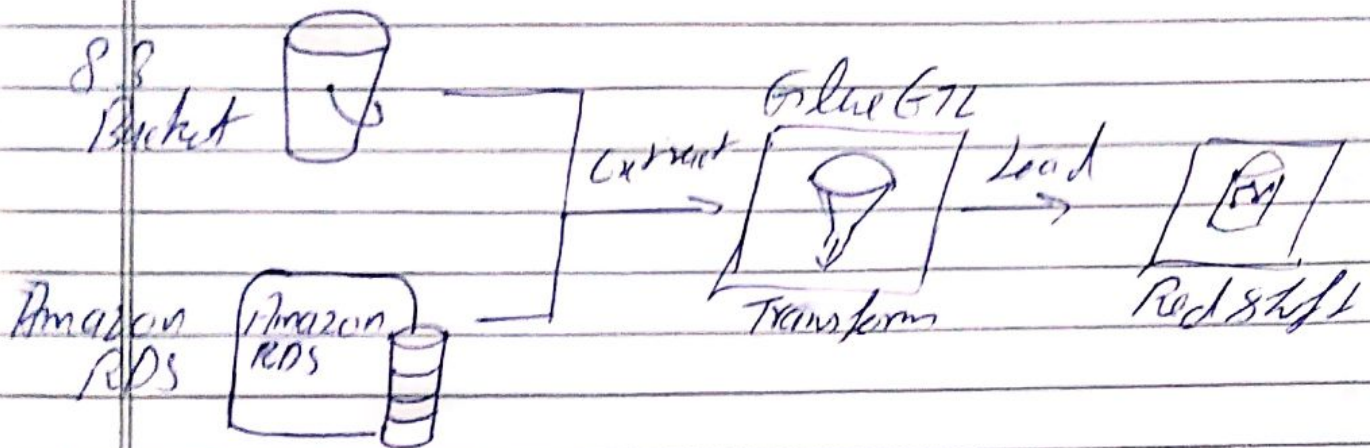
Amazon Managed Blockchain

- Blockchain make it possible to build application where multiple parties can execute transactions without the need for a trusted, central authority.
- Amazon Managed Blockchain is a managed service to:
 - Join public blockchain networks
 - Or create your own scalable private network
- Compatible with the framework Hyperledger Fabric & Ethereum



AWS Glue

- Managed extract, transform and load (ETL) service
- Useful to prepare and transform data for analytics
- Fully Serverless Service



- Glue Data Catalog: Catalog of datasets
- Can be used by Athena, Redshift, EMR

DMS - Database Migration

- Quickly & securely migration database to AWS, resilient, self healing
- The source database remains available during the migration
- Supports
 - Homogeneous migrations: ex Oracle to Oracle
 - Heterogeneous migrations: ex Microsoft SQL Server to Aurora

