Assignment 2

As are ultimate goal is to make

* highly scalable
* Future proof
* Cost Effective
* Secure
* Decoupled

Application. I am proposing two different design.

**First** of all, we need to make our DB Reboots and ready for disaster recovery.

We plan to provide DB cluster with 2 read replica and one

RDS-Standby multi AZ instance.

For encrypting data while transit we can use **EFS** and setup encryption

And for encryption at rest we can use **KMS**

DB Design

A close up of a logo

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Now For complete App design we have first solution as with Ec2 and caching services

A picture containing text, map, drawing

Description automatically generated

Second Solution is with microservices and containers

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Description automatically generated

As First is using Ec2 which is highly saleable with Auto scaling feature where cost vise if there is no stream still, they will run and chargeable as instance

In Second case Managing application as service in terms of API is every fast and effect more like NextGen design with all microservice and stream of data and highly scalable