Elasti Cache is used to relocive the data very quickly by Storing most frequently used data in Carche.

1) Merrs Cached

2) Redis.

-> Most Common queries are stored in EC.

-> RDP - OLTP

D SQL

2) MySQL

3) Post GRESQL

4) Oracle

& Aurora

6) Maria DB

-> Dynamo DB - NOSQL

-> Redshift - OLAP of arrazers , used for data warehousing in the cloud.

-> DB is never given an Pobic It address it has only domain name.

> Both Sewisty grows of Ecz and Mysall DB needs to be some Secosity group.

pol was in mayorit .

and should be to be to be

Automated - allow to overever your DB to 1/2 ony point in time within a oretention Perio

- These are defaulty enabled.

-> Free Space in s3 Equal to Size of DB

Snapshots - These are done Monually - Stored even after you delete the Original RDS instance

Ten Doronain is Created.

-> Encryption is done by (KMs) service.

> Existed DB Cant be energy pted.

> 7 days -35 days retention Period.

Snapshot DB > Carpy of Snapshot.

Can be Encrypted

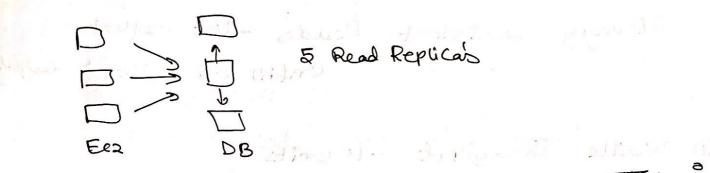
SA itsoM E

AZ.

DBI DBR

272

> Muli	A218	are	902	Disaster	recover	only
				formance.	j.	A .



- > Read only copy of our application. This is asynchronous where as Multi AZ us Synchronic
- -> Not available for SQL & oracle.
- -> used for Scaling. -> you can have read replicas that have moeta AZ.

- -> They Can be Promoted to become own DE
- -> Read replica Can be un a Second region.

## Dynamo DB

-> SSD Storage

Spread across 3 Data Centeries

Eventual Consistent Reads -1 sec

Strongly Consistent Reads - Not replected until all writes successful

- → Write Throughput -10 units

  Read Throughput -50 units

  Storage Costs \$0.259b Resomanth
- 3 Expensive for word too less for reads.
- -> Reserved Capacity is Present.
- -> Scaling is very easy and on the fly.
- -> RDS has downtime when Scaling cohereas Dynamo DB doesnot have any.

## Redshift (37)

- > Fast, Powerful, managed data warehouse Service un the cloud.
- → D Single Mode (160 G)
  - 2) Moeti Node

Steader Noole

- -> Compute Node (upto 128 Compute Nodus)
- -> Columnar Data Storage is Storing data as a Series of arous organized by data by Calums
- D Advanced Componension because Calumn data Com de Compoursed una better view.
- -> Doesmot requise indexess materialized views and usus less space than tooditional RDS.
- 3 Massive Parallel Processing, distributes load on all the Nodes.
- -> Posce: Compute Node Backup Data Toronsfer

- > Takes Care of Key Monagement (KMS)
- > Corrently only available um 1 AZ.
- I restore snapshots to new AZ in the event of an outage.
- -> Store data Sequentially on the dBK.
- > Elastic Cache = Dillem Cached

A widely adopted memory object Caching System
2) Redis

In memory Key-valve Store Mueli AZ Iredundancy us achieved.

- DE Blastic Cache is good Choice if it is oread havy and not Prome to frequent Changes
- 3 Redshift for OLAP & Warehousing.

- 2) Relational DB which up Speed and more available. & times better than My SqrL.
- -> cheapen then oracle.
- > Stool with 10 GB to 64TB each Scale 10TB

Compute to 321CPU's and 2146B of Memory.

- -> 2 Copies of data at 3 AZ ie 6 Capies
- handes last of a copies of data by white 3 copies of data by Read.
- -> It is say healing. The pairs automatically
- -> Repulcas s La Aurora Replica (15) LS My Sql Read Replica (5)

Failover is automatically updated to Aveora but not in Mysall replica.