DYANAMODB

**DynamoDB**

* non- relation, NoSql.
* High availability and durability.
* There is no schema restrictions. you can maintain different data in same column.
* Dyanomodb is a fully managed and nosql database service offered by aws.
* Faualt tolerance is available in dynamodb and it supports cross region replications.
* It is a serverless cloud based no sql database.
* it works on key-value-pair
* it has 2 types of primary keys.
* Partion key,partionkey and sort key.
* it has 3 core components.
* Attribute
* Item
* Table

why we go for dynamodb

* scalability—scales seamlessly no matter the traffic
* customisable--database is highly customisable according to priorities of the app
* data types---data can be store in multiple data types
* stable performance—no matter the traffic,user get stable app performance
* DYANAMODB FEATURES
* ondemand capacity mode
* built in support for acid transactions
* on demand backup
* poin in time recovery
* encryption in rest
* primary key is a unique attribute that is necessary while creating a table,it cannot be null at any given point.hence,while inserting an item into the table ,a primary key attribute is must.

Provisioned throughput capacity : R/W operation per sec provisioned for the DynamoDB table and tell aws how much h/w to provision for the table.

* 1 write Unit used for 4kb item
* 2 write Unit used for 8kb item

**Main features of DynamoDb capacity** :

* **On demand capacity :** Table capacity scales as needed, pay per table or index request, more expensive that provisioned capacity mode.
* **Provisioned capacity :** Increase or decrease provisioned capacity based on rules, works like EC2 auto scaling groups, cheaper than on-demand capacity mode.

**Create DynamoDB**On Dynamo DB Console 🡪 create table



