Database: DynamoDB

- 50GB storage each month
- Highly performant
- Fully Serverless


```typescript
const saasTable = new awsDynamodb.Table(scope, 'SaasTable', {
  tableName: `SaasTable`,

  billingMode: awsDynamodb.BillingMode.PAY_PER_REQUEST,
  partitionKey: {
    name: 'id',
    type: awsDynamodb.AttributeType.STRING,
  },
});

saasTable.addGlobalSecondaryIndex({
  indexName: 'typename-id-index',
  partitionKey: {
    name: '__typename',
    type: awsDynamodb.AttributeType.STRING,
  },
  sortKey: {
    name: 'id',
    type: awsDynamodb.AttributeType.STRING,
  },
});
```

AWS AppSync

- 250,000 query operations (free tier)
- 250,000 real-time updates (free tier)
- Serverless, function-less, integrations
- Integrates with Cognito
- Both HTTP and WebSocket endpoints


```graphql
schema.graphql

type Query {
  listRecipes: [Recipe]! @aws_cognito_user_pools
}

type Mutation {
  createRecipe(input:RecipeInput!): Recipe @aws_cognito_user_pools
}

type Recipe {
  id: ID!
  coverImage: String!
  title: String!
  description: String!
  servings: Int!
  owner: String!
  ingredientsText: String!
  stepsText: String!
}
```