

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



```
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!
}
```

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TS create-appsync-api.ts

```
const api = new awsAppsync.GraphQLApi(scope, 'RecipeAPI', {
  name: `RecipeAPI`,
  schema: SchemaFile.fromAsset(path.join(
    __dirname, './graphql/schema.graphql'
  )),
  authorizationConfig: {
    defaultAuthorization: {
      authorizationType: AuthorizationType.USER_POOL,
      userPoolConfig: {
        userPool: props.userpool,
      },
    },
    additionalAuthorizationModes: [
      { authorizationType: AuthorizationType.IAM }
    ],
  },
});
```