

# AWS AppSync

- 250,000 query or data modification operations (free tier)
- 250,000 real-time updates (free tier)
- Serverless, function-less, integrations
- Integrates with Cognito



JS getRecipe.js

```
import { util } from '@aws-appsync/utils';

export function request(ctx) {
  return {
    operation: 'GetItem',
    key: util.dynamodb.toMapValues({ id: ctx.args.id }),
  };
}

export function response(ctx) {
  // Check if the recipe belongs to the user
  if (ctx.result.owner !== ctx.identity.sub) {
    util.unauthorized();
  }
  return ctx.result;
}
```

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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 }
    ],
  },
});
```