

AWS AppSync GraphQL APIs

GraphQL vs REST

- Strongly Typed Schema
- Reduce over fetching (or under fetching) data
- Single endpoint to serve your API
- Faster Iterations
 - Strict schema helps with this
 - You don't need to know how your backend implements the API

GraphQL on AWS

- Access a variety of Datasources (DynamoDB, RDS, OpenSearch, Lambda, Eventbridge, Etc.)
- Merge several APIs into a single source API

AWS AppSync Components

Schema

- Defines the shape of your data

```
type Person {  
  id: ID!  
  name: String  
  email: AWSEmail!  
}  
  
type Query {  
  people: [Person]  
  person(id: ID!): Person  
}  
  
type Mutation {  
  addPerson(id: ID!, name: String, email: AWSEmail!): Person  
  deletePerson(id: ID!):
```

AWS AppSync Components

Data sources

The actual data your are interacting with via your schema

- DynamoDB Table
- RDS Database
- OpenSearch
- HTTP APIs
- Lambda
- None Data source

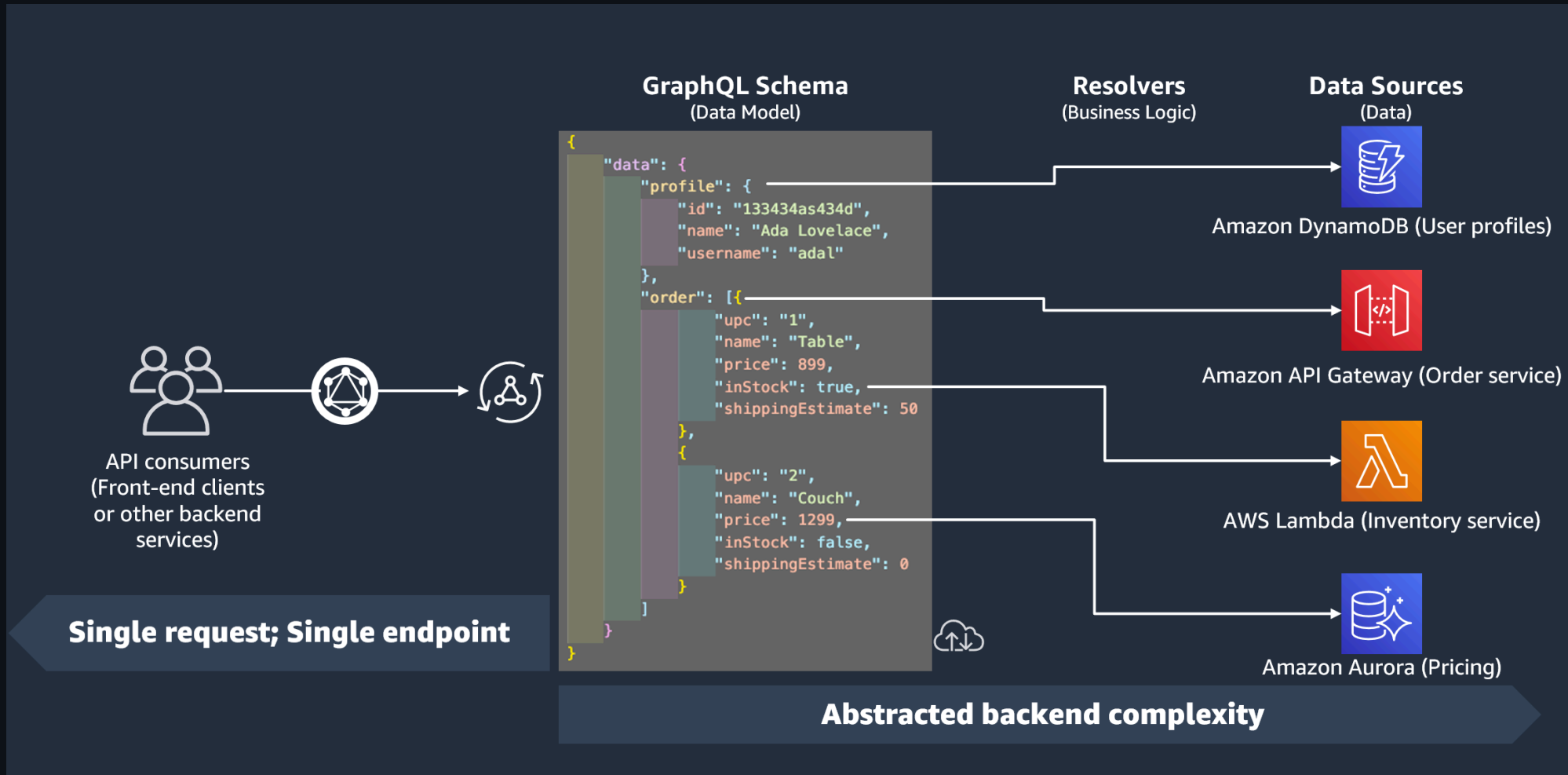
AWS AppSync Components

Resolvers

How to interact with your Data sources

- Unit/Direct Resolvers or Pipeline Resolvers
- JavaScript or VTL

Putting It All together



Demo Time

