Introduction to AWS AppSync

A Powerful and Serverless / GraphQL Solution

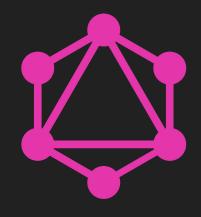
Benoît Bouré - About me

- Serverless Developer At Serverless Guru
- Using Serverless Since 2018
- AWS Community Builder
- Maintainer of the Serverless Framework appsync & simulator plugins
- @Benoit_Boure
- https://github.com/bboure
- https://benoitboure.com/



Topics

- Introduction to GraphQL
- AWS AppSync



GraphQL

Traditional (REST) APIs



GraphQL

```
\bullet \bullet \bullet
query {
   getUser(id: 1) {
     name
     email
     avatar {
       url
       width
       height
     addresses {
       street
       postCode
       city
```

Types of queries

Queries

```
query {
  getUser(id: 1) {
    email
    avatar {
     url
     width
    addresses {
     street
      postCode
      city
```

Mutations

```
mutation {
  createUser(
   user: {
     name: "John"
     email: "john@example.com"
    name
    email
```

Subscriptions (Pub/Sub)

```
subscription {
  onUserUpdate(id: 1) {
    name
    email
  }
}
```

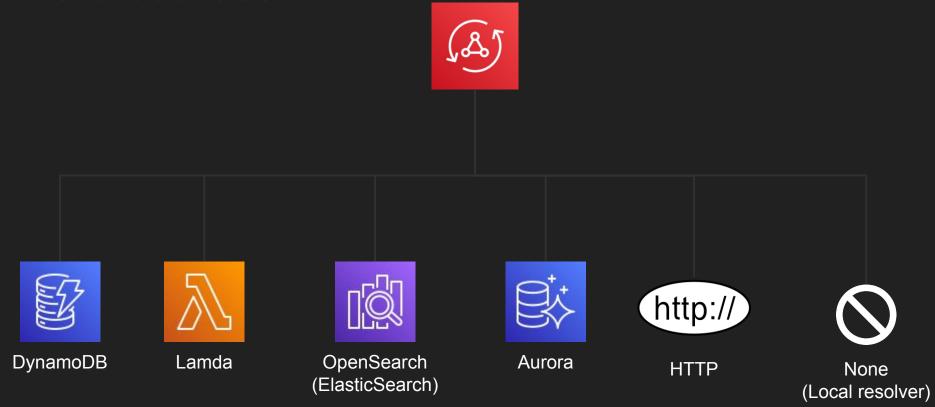


AWS AppSync

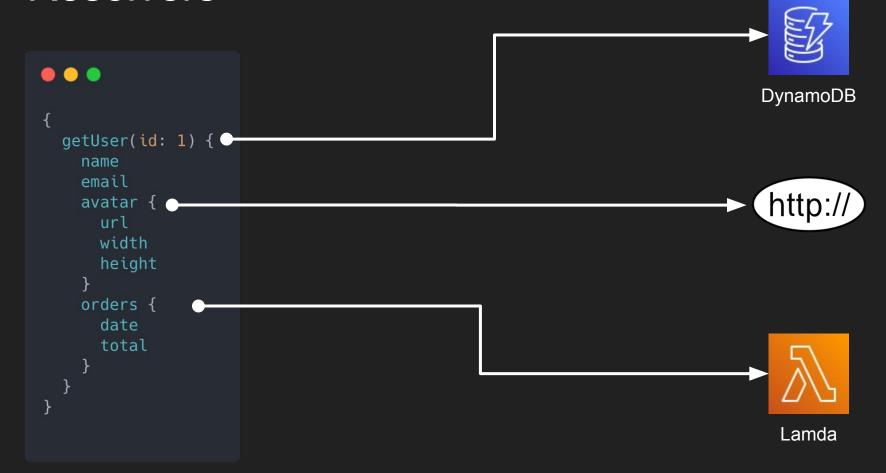
What is AWS AppSync (and why you should use it)?

- Fully managed GraphQL service by AWS
- It's Serverless! (Pay per usage)
- It scales!

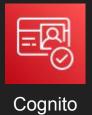
Data sources



Resolvers



Authentication & Authorization



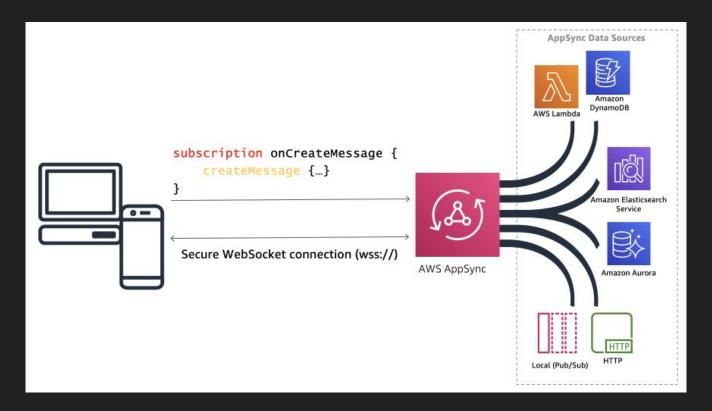








Subscriptions (Pub/Sub)



Source: https://aws.amazon.com/blogs/mobile/appsync-realtime/

Cache

- In-memory caching capability
- Full request or per-resolver cache
- Caching keys: Arguments and user identity
- Time-to-live: up to 1 hour

Developer tools

Deployment

- Amplify CLI
- AWS SAM
- CDK
- Serverless Framework
- CloudFormation

Client-side libraries

- AmplifyJS
- Apollo Client
- graphql-code-generator

Thank you! ありがとうございました!

@Benoit_Boure

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