

Why You Should **Build Your Next Product With AppSync**

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Hello there!

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Agenda

- The evolution of AppSync
- Reason #1: Rapid Prototyping
- Reason #2: Infinite Scalability
- Reason #3: Team Collaboration
- Reason #4: Native AWS Integration
- Reason #5: Error Reduction
- Reason #6: Cloud-Native Evolution
- Reason #7: Empowering Small Teams

The evolution of AppSync

- The old AppSync
 - VT-hell
 - Not so great DX
 - Business logic very hard to test

```
Set query expression for @key **
lQueryExpression = {} )
Validate key arguments. **
isNull($ctx.args.initiatorNarwhalId) && $util.isNull($ctx.args
or("One of 'initiatorNarwhalId' or 'acceptorNarwhalId' must be
.isNull($ctx.args.initiatorNarwhalId) && !$util.isNull($ctx.ar
or("Only one of 'initiatorNarwhalId' or 'acceptorNarwhalId' mu
lidate key arguments. **
.isNull($ctx.args.initiatorNarwhalId) )
dex = "ByInitiatorNarwhalIdCreatedAt" )
delQueryExpression.expression = "#narwhalInitiatorAgreementsId
delQueryExpression.expressionNames = {
InitiatorAgreementsId": "narwhalInitiatorAgreementsId"
delQueryExpression.expressionValues = {
orNarwhalId": {
"$ctx.args.initiatorNarwhalId"
.isNull($ctx.args.acceptorNarwhalId) )
dex = "ByAcceptorNarwhalIdCreatedAt" )
delQueryExpression.expression = "#narwhalAcceptorAgreementsId
delQueryExpression.expressionNames = {
AcceptorAgreementsId": "narwhalAcceptorAgreementsId"
delQueryExpression.expressionValues = {
rNarwhalld": {
"$ctx.args.acceptorNarwhalId"
```

isNull(\$ctx.args.createdAt) && !\$util isNull(\$ctx.args.create

Applying Key Condition **

The evolution of AppSync

- The new AppSync
 - Javascript resolvers
 - Lambda resolvers
 - Direct connections

```
import { util } from '@aws-appsync/util
 * Request a single item from the attac
 * @param ctx the request context
export function request(ctx) {
  return {
    operation: 'GetItem',
    key: util.dynamodb.toMapValues({ id
 };
/**
 * Returns the DynamoDB result directly
 * @param ctx the request context
export function response(ctx) {
  return ctx.result;
```

Rapid Prototyping

- 1. Build a UI
- 2. Write the interactions in GraphQL
- 3. Figure out the AWS services needed
- 4. Write the resolvers
- 5. Amplify codegen
- 6. Good to go 🎉

Infinite Scalability

- Automatic scaling
- 100% serverless
- Real-time data sync
- IAM authentication
- Multi-region support

Team Collaboration

- GraphQL as a shared language between frontend and backend
- Reduce misunderstandings
- Parallelise work

Native AWS Integrations

- Easy to connect *directly* to AWS services
- No need for glue code

Error Reduction

- Less reliance on custom code
- Fewer potential points of failure
- Less boilerplate

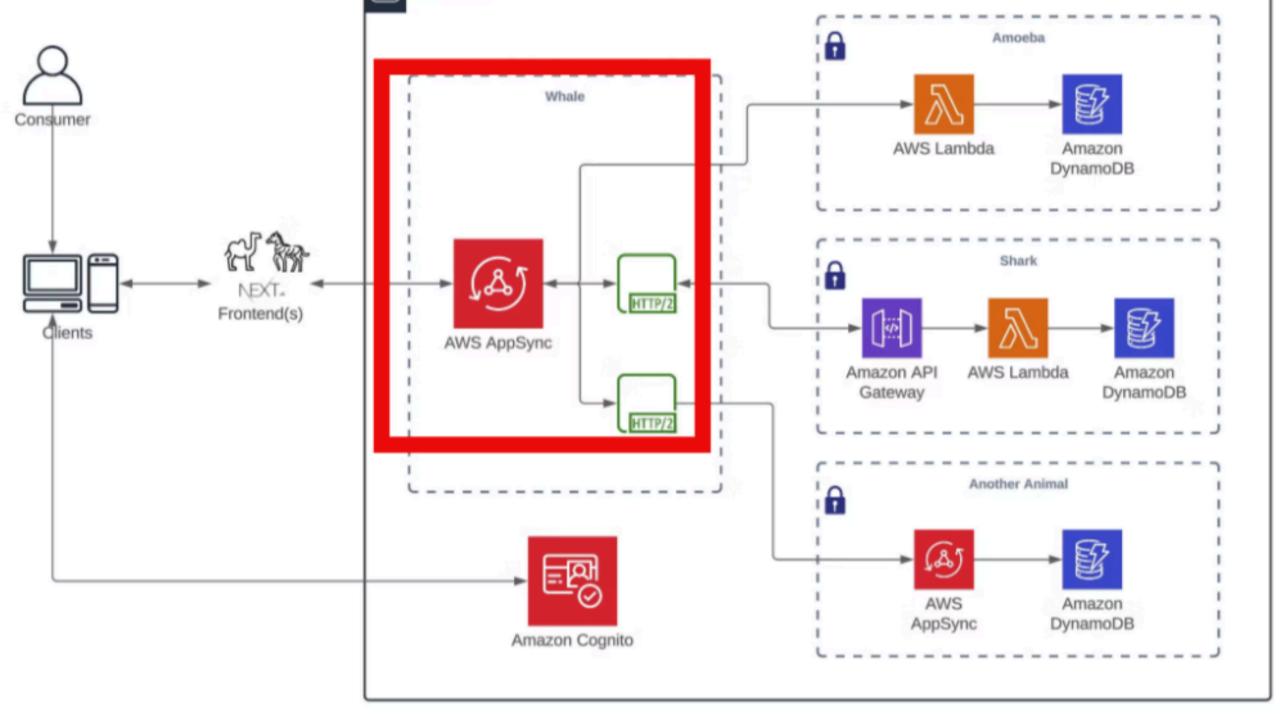
Cloud-Native Evolution

- The convenience of Django, Rails, Laravel
- ...but backed by the cloud!

(AppSync is not a battery-included framework)

Empowering Small Teams

- We rebuilt our entire API layer in a few weeks
- Made us much more productive and able to parallelise our work
- Has given us clarity over our data access patterns
- Has made it easier for frontend people to venture into the backend



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- Reason #2: Infinite Scalability
- Reason #3: Team Collaboration
- Reason #4: Native AWS Integration
- Reason #5: Error Reduction
- Reason #6: Cloud-Native Evolution
- Reason #7: Empowering Small Teams

Thank You!

Useful Links

- X @MarcoTroisi
- in linkedin.com/MarcoTroisi
- theserverlessmindset.com ←
- trilo trilo.io

