SDL FIRST PRODUCTS

Parallelizing Product Development with GraphQL

@CHRISBISCARDI



SCHEMA DEFINITION LANGUAGE

blog schema

```
type Post {
   id: String!
   title: String!
   publishedAt: DateTime!
   likes: Int! @default(value: 0)
   blog: Blog @relation(name: "Posts")
}
type Blog {
   id: String!
   name: String!
   description: String,
   posts: [Post!]! @relation(name: "Posts")
```

A New Product



prisma init

→ prisma init full-03

? How to set up a new Prisma service?

Minimal setup: database-only

> GraphQL server/fullstack boilerplate (recommended)

prisma init

→ prisma init full-03

? How to set up a new Prisma service?

Running \$ graphql create ...

? Choose GraphQL boilerplate project:

Basic GraphQL server (incl. database) > node-basic

node-advanced GraphQL server (incl. database & authentication)
typescript-basic Basic GraphQL server (incl. database)
typescript-advanced GraphQL server (incl. database & authentication) react-fullstack-basic React app + GraphQL server (incl. database)

prisma deploy

[graphql create] Running boilerplate install script...
Running \$ prisma deploy...

? Please choose the cluster you want to deploy "full-03@dev" to

prisma-eul Public development cluster (hosted in EU on Prisma Cloud) prisma-usl Public development cluster (hosted in US on Prisma Cloud)

> local cluster (requires Docker)

Log in or create new account on Prisma Cloud

Note: When not logged in, service deployments to Prisma Cloud expire after 7 days. You can learn more about deployment in the docs: http://bit.ly/prisma-graphql-deployment

prisma deploy

```
Please choose the cluster you want to deploy "full-03@dev" to
Added cluster: local to prisma.yml
Creating stage dev for service full-03 ✔
Deploying service `full-03` to stage `dev` on cluster `local` 201ms
Changes:
 Post (Type)
 + Created type `Post`
 + Created field `id` of type `GraphQLID!`
 + Created field `isPublished` of type `Boolean!`
 + Created field `title` of type `String!`
 + Created field `text` of type `String!`
 + Created field `updatedAt` of type `DateTime!`
 + Created field `createdAt` of type `DateTime!`
Applying changes 1.1s
Hooks:
Importing seed dataset from `seed.graphql` 498ms
Your GraphQL database endpoint is live:
 HTTP: http://localhost:4466/full-03/dev
 WS: ws://localhost:4466/full-03/dev
Checking, if schema file changed 180ms
Writing database schema to `src/generated/prisma.graphql` Oms
```

tree . - I node_modules

Schema

```
type Post {
  id: ID! @unique
  isPublished: Boolean! @default(value: false)
  title: String!
  text: String!
```

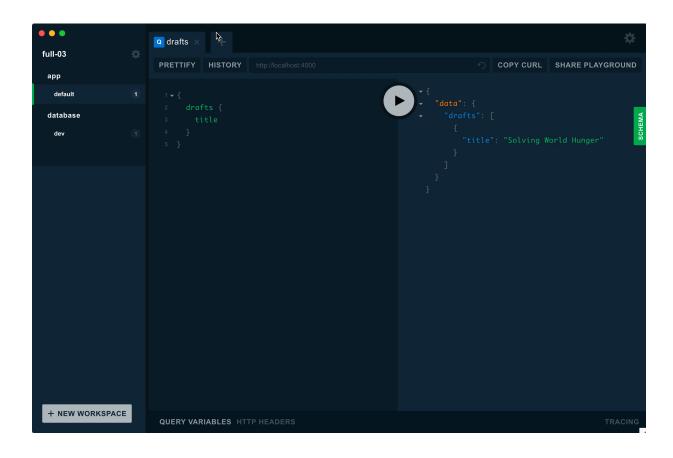
Seeds

```
mutation {
 first: createPost(data: {
   title: "Hello World"
   text: "This is my first blog post ever!"
   isPublished: true
  }) {
   id
  second: createPost(data: {
   title: "My Second Post"
   text: "My first post was good, but this one is better!"
   isPublished: true
  }) {
   id
  }
  third: createPost(data: {
   title: "Solving World Hunger"
   text: "This is a draft..."
   isPublished: false
 }) {
   id
 }
```

playground

→ yarn playground
yarn run v1.3.2
\$ graphql playground
Serving playground at http://localhost:3000/playground





Updating

```
type Post {
  id: ID! @unique
  isPublished: Boolean! @default(value: false)
  title: String! @deprecated
  title2: String
  text: String!
```

Updating

```
→ yarn prisma deploy
yarn run v1.3.2
$ prisma deploy
Deploying service `full-03` to stage `dev` on cluster `local` 176ms

Changes:

Post (Type)
+ Created field `title2` of type `String`

Applying changes 1.1s

Your GraphQL database endpoint is live:

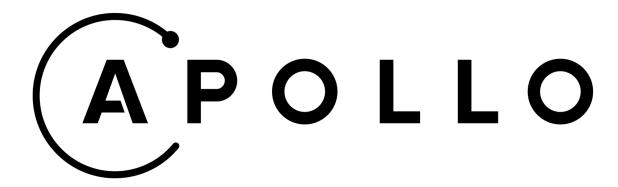
HTTP: http://localhost:4466/full-03/dev
WS: ws://localhost:4466/full-03/dev

Hooks:
Checking, if schema file changed 178ms
Writing database schema to `src/generated/prisma.graphql` Oms
Running $ graphql prepare...

Done in 6.29s.
```

SCENARIO 2

Frontend Needs More



Apollo Boost

- apollo-client
- apollo-cache-inmemory
- apollo-link-http
- apollo-link-error
- apollo-link-state
- graphql-tag

link-state

```
import { withClientState } from 'apollo-link-state';
// This is the same cache you pass into new ApolloClient
const cache = new InMemoryCache(...);
const stateLink = withClientState({
 cache,
 resolvers: {
   Mutation: {
     updateNetworkStatus: (_, { isConnected }, { cache }) => {
       const data = {
        networkStatus: {
           __typename: 'NetworkStatus',
           isConnected
        },
       cache.writeData({ data });
       return null
   },
});
```

