



GraphQL

Duration 2 day(s) (GRAPHQL-01)

Using GraphQL for your next APIs

Description

GraphQL is an open-source project developed by Facebook and available in open-source since 2015, after Facebook used it in production for a few years. With this solution, you will provide robust and powerful APIs. With this new syntax, the users of your APIs will be able to optimize the experience of their users by providing the requested data (and only the requested data). During this training, after addressing this syntax, we will integrate GraphQL into an existing infrastructure, both server-side and client side.

Goals

- Understand the GraphQL syntax
- Know how to integrate GraphQL in an existing infrastructure
- Use in a Web application
- Discover the ecosystem

Public

- For all

Prerequisites

- API REST, JavaScript, Node.js

Structure

30% Theory, 70% Practice

Program

Introduction

- The limitations of REST APIs
- GraphQL versus REST API
- General presentation

- Apollo Client Developer Tools

Requests and transfer

- Syntaxes: fields, arguments
- Metadata
- *Aliases*
- *Fragments*
- Guidelines: @include and @skip
- Mutation
- Introspection

Types

- The Query type
- Objects and typing
- Scalar types
- Interfaces
- Enum and Union
- The type Mutation

Client-side GraphQL with Apollo Client

- Using the Apollo Client library in JavaScript
- Integration into the *framework* of your choice: Angular2, React ...

Server-side GraphQL with Apollo Server

- Root Type
- Resolver
- Versioning
- Example of integration with NodeJS and Express
- Using GraphQL with an Existing REST API
- Using GraphQL with multiple databases
- Good practices

Tooling