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Hasura training

2 days (14 hours)

Presentation

If your backend development teams use GraphQL, their speed and productivity will increase tenfold with Hasura.

The advantages of Hasura are many:

- Make powerful queries: Built-in filtering, pagination, bulk insert, delete mutations, pattern search, update
- Transform GraphQL queries into real-time queries
- Dynamic access control that integrates with your authentication system
- High performance and low power consumption (15MB docker image; ~50MB RAM @ 1000 req/s)
- Support Postgres files, transform views into graphics, trigger stored functions or procedures with mutations

In this Hasura training course, you'll discover how to use Hasura with a good knowledge of queries, authentication, migrations, metadata, mutations and real time subscriptions.

As with all our training courses, this one will introduce you to the latest version of the tool, Hasura 2.

Objectives

- Use Hasura to generate the GraphQL API in real time from a Postgres database
- Transform your data so you don't have to code it anymore
- Integrate a JWT-based authentication provider (using Auth0) with Hasura
- Hasura's basic commands
- Using migration and metadata

Target audience

- Developers
- Directors
- Project managers

Prerequisites

- Basic knowledge of Docker
- Basic knowledge of GraphQL
- Basic knowledge of web development

Hasura Training Program

Data modelling and relationships

- · Creating and using a users table
- Creating and using a todos table
- Create a foreign key
- Creating a relationship
- Data transformations

Requests, mutations and real-time subscriptions

- Launch Hasura as a Docker container
- The Hasura console
- Queries (Data sorting, Data filtering, Data full text searching)
- Mutations: create, modify and update an element
- Mutations Mutate Items with Relations
- Using Variables in GraphQL Queries, Mutations and Subscriptions
- Subscriptions for real-time queries

Authentication

- Create an AuthO application
- Authentication with JWT (JSON WEB Token)
- Authentication with JWT and Firebase API
- Role-based Access
- Anonymous role
- Webhook Authentication Mode
- Auth0 connection
- Synchronize users with rules
- Testing with Auth0 tokens

Event triggers and actions

- Firebase Cloud functions
- Create event triggers
- Implementing event logic
- Create an action
- Relationships with databases
- Remote Scheme

Migration and metadata

- What are migrations and metadata?
- Hasura CLI
- Initial migration
- Export metadata
- Check Migration status
- How do I apply metadata?
- Synchronize migrations and metadata
- Squashing migration
- Seed Migrations

Companies concerned

This course is aimed at companies, large or small, wishing to train their teams in a new, advanced computer technology.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.