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Sign up

Directus training

3 days (21 hours)

Overview

Our training course introduces you to Directus, an open source headless CMS that transforms any SQL database into an instant API and manageable back-office. Thanks to its API-first approach, Directus enables you to create modern, scalable applications that are completely decoupled from the front-end.

This Directus training course will help you master data modeling, collection and relationship management, the use of REST and GraphQL APIs, and back-office customization.

You'll learn how to integrate Directus with your front-end applications and set up secure, automated workflows.

You'll also learn about best practices in deployment, security and supervision, so that you can use Directus in production with a robust architecture.

At the end of this course, you'll be able to install, configure and deploy Directus, design data models adapted to your needs, secure your environments and integrate Directus into your professional projects.

Like all our training courses, this one is based on the latest stable version of [Directus](#), and takes a practical, operational approach.

Objectives

- Understand the architecture and uses of Directus.
- Create and administer relational data models.
- Use and secure REST/GraphQL APIs.
- Define and manage user roles and permissions.
- Deploy and supervise a Directus environment in production.

Target audience

- Web developers
- Technical architects
- Technical project managers

Prerequisites

- Basic knowledge of SQL
- Notions of REST or GraphQL APIs
- Familiarity with web development

Directus training program

[Day 1 - Morning]

Introduction to Directus and fundamental concepts

- Discover Directus: Headless CMS and Data Platform
- Architecture: API-first, SQL layer, Administration Studio
- Overview: collections, schemas, files, auth
- Available APIs: REST and GraphQL
- Use cases: sites, apps, back-office, internal tools
- Practical workshop: Local installation and initial configuration.

[Day 1 - Afternoon]

Modeling and data management

- Creating collections and defining fields
- 1-1, 1-n, n-n relationships and integrity constraints
- Data space organization (naming, conventions)
- Import / export, schema migration
- Best practices in standardization and performance
- Practical workshop: Building a product catalog model.

APIs and application integrations

- Using the REST API
- Exploring the GraphQL API (queries, mutations)
- Integrating with React / Vue / Angular
- Webhooks, SDKs and automations

- Token management and access policies
- Practical workshop: Mini front end using Directus.

[Day 2 - Morning]

Users, roles and permissions

- Authentication model: roles, policies and rules
- Fine-grained permissions on columns, items and endpoints
- Team management, private collections, auditing
- Security best practices
- Traceability and audit logs
- Practical workshop: Setting up granular permissions.

[Day 2 - Afternoon]

Extensions and Studio customization

- Overview of extensions (interfaces, hooks, modules)
- Back-office customization (UI, branding)
- Third-party integrations (DAM, SSO, external services)
- Extension lifecycle, packaging and deployment
- Testing and maintenance
- Practical workshop: Creating a simple extension.

Deployment and CI/CD

- Deploying with Docker / Compose / Kubernetes
- Environment configuration, secrets and variables
- CI/CD integration (build, migration, seed)
- Backups, restores and upgrades
- Performance optimization
- Practical workshop: CI pipeline deploying Directus + SQL database.

[Day 3 - Morning]

Advanced data and JSON formats

- JSON manipulation and dynamic fields
- Serialization (JSON, MsgPack, Protobuf)
- Transactions and atomic operations
- Client/edge caching strategies
- Request and payload optimization
- Practical workshop: Creating a JSON mini API.

[Day 3 - Afternoon]

Observability, supervision and costs

- Logs, metrics, dashboards
- Alerting and anomaly detection
- Security hardening and monitoring
- FinOps best practices (storage, IO, egress)
- Comparison with other Headless CMS / BaaS
- Practical workshop: Setting up project supervision.

Migration, governance and go-live

- Migration strategies from an existing CMS
- Data governance
- SRE runbooks: SLO/SLI, error budgets
- Load testing and pre-prod validation
- Go-Live checklist
- Practical workshop: Progressive migration of a project to Directus.

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 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 is used to verify the correct acquisition

skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.