Course : Gravitee API Management

Control and optimize API use
Practical course - 2d - 14h00 - Ref. GAV
Price : 1680 CHF E.T.

NEW

This course will introduce you to the API Management solution contained in Gravitee's open source offering. You'll learn about the theory behind the solution, and how to put it into practice using Gravitee, a solution that manages APIs supporting different exchange styles and protocols. You'll also learn how to manage and promote APIs through practical case studies.

Teaching objectives

At the end of the training, the participant will be able to:

- Understand the concepts and benefits of setting up an API Management system
- Understand and use the Gravitee solution through real-life case studies
- Master the setting of API provisioning rules via the Gravitee administration console
- Use and manage subscriptions via the Gravitee developer portal
- Acquire a first level of autonomy enabling advanced management of an API catalog on Gravitee

Intended audience
Consultants, developers, project managers.

Prerequisites
Mastery of API concepts, notions of REST (REprensentational State Transfer) best practices.

Practical details
Teaching methods
Active.

Course schedule

1. Introduction to API Management and Gravitee

- Problems solved by API deployment
- Introduction to API Management concepts
- Introduction to Gravitee's offering
- Presentation of the interconnections between the various Gravitee bricks
- Gravitee API Management technical layers
- Introduction to Gravitee's API Management vocabulary

2. API creation and management

- Create your first API via the Gravitee administration console
- Deploy and publish APIs on the Gravitee developer portal
- Manage and track the status of your APIs

Hands-on work
Get to grips with the administration console to create, deploy, publish and administer your first API.

3. API plan management

- Introduction to the concept of plan
- Creating a plan
- Publication of plans according to required safety levels

Hands-on work
Create and publish new plans.

4. Consumption and subscription on an API

- Presentation of Gravitee's developer portal, including catalog and application concepts
- Creation of a plan subscription request with application type definition
- Validation and management of subscriptions

Hands-on work
Operate the Gravitee portal. Create and manage subscription requests.

5. Managing API member access levels

- Overview of basic roles in Gravitee
- Grant additional read/write access to a user
- Ensure the API creator's departure by transferring his or her rights

Hands-on work
Assign roles, manipulate them, modify API access rights.

6. Load-Balancing, Failover, Health Check

- Ensure scalability and configure load balancing between API endpoints
- Increase resilience to failure by implementing Failover
- Ensure that APIs are always accessible with Health Checks

Hands-on work
Configure load balancing, implement failover and ensure API accessibility.

(7) Gravitee design studio overview

- Customize and adapt API access levels by applying request processing strategies
- Design rules based on query and response data
- Simplify rule maintenance by modifying parameters
- Develop complex rules based on query context

Hands-on work

Manipulate the Gravitee studio. Manage different API access rules, taking requests into account.

(8) Logs and analytics

- Track and analyze API consumption metrics via Gravitee dashboards
- Facilitate problem-solving by setting parameters for the information to be saved
- Balancing performance and logging

Hands-on work

Analyze metrics and identify needs to solve problems.

Dates and locations

REMOTE CLASS
2026 : 16 Mar., 11 June, 7 Sep., 19 Nov.