

# Course : Gravitee API Management

**Control and optimize API use**

**Practical course - 2d - 14h00 - Ref. GAV**

**Price : 1430 € 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 (REpresentational State Transfer) best practices.

## Practical details

**Teaching methods**

Active.

## Course schedule

### PARTICIPANTS

Consultants, developers, project managers.

### PREREQUISITES

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

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

## 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.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## 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.

### PARIS LA DÉFENSE

2026 : 4 June, 31 Aug., 12 Nov.