Updated 01/30/2025

Sign up

Apigee training

3 days (21 hours)

Presentation

Our Apigee training will teach you the skills you need to create, manage, monetize and secure your APIs. Our program covers all the tool's functionalities so that you can efficiently analyze and deploy your APIs.

In this course, you'll first learn about Apigee's core features, such configuration, API creation and performance optimization. Through a hands-on demonstration, you'll learn how to manipulate the interface and configure your alerts.

By the end of the course, you'll have mastered API management, advanced use of Apigee for securing APIs, as well as automation and dashboard creation.

As with all our training courses, we will introduce you to the latest version of the software: Apigee 1-14-0

Objectives

- Understanding Apigee's role
- Design and develop robust APIs
- Securing APIs
- Managing the API lifecycle
- Optimizing API performance
- Integrate Apigee with other systems

Target audience

- **Cloud Architects**
- DevOps engineers
- Full-stack developers

Prerequisites

Basic knowledge of API design

Hardware requirements

Access to Apigee

Apigee training program

INTRODUCTION TO Apigee

- Introduction to Apigee features, components, architecture and benefits
- Tools and environment
- Basic concepts of API security
- Apigee deployment models
  - Cloud
  - hybrid
  - on-premise

API design and development

- RESTful API
- Configuring and deploying API proxies
- API version management
- Error and exception handling
- Specific OpenAPI documentation

Securing APIs

- Authentication and authorization OAuth 2.0, API Key, RBAC
- Protecting APIs against threats
  - DDoS
  - SQL injections
  - XSS
- Encryption and data security
- Vulnerability management Identification and correction of security vulnerabilities
- PCI DSS, HIPAA, GDPR
- Securing APIs in a microservices architecture

API traffic and performance management

- Cache configuration to improve API performance
- Traffic control to prevent overloads and guarantee API availability
- Modifying API requests and responses
- Automatic scaling and load balancing for better management of traffic peaks

- Techniques for improving API response times
- Tools and metrics for monitoring API performance

API monitoring, analysis and monetization with Apigee

- PLC monitoring
  - Metrics collection
  - audit logs
  - alerts
- API analysis
- Creation of pricing plans, billing for API use
- Create customized dashboards to track API usage
- Integration with analytics tools such as Google Analytics or Splunk

Deploying and managing Apigee

- View deployment options
  - Private cloud
  - public cloud
  - hybrid
- Environment management
- Apigee upgrade and API migration
- Use CI/CD to automate API deployment
- Centralization and management of Apigee configurations

Integrating Apigee with other services

- Integration with Google Cloud services
  - Cloud Functions
  - Cloud Run
  - Cloud Storage
- Integration with CRM and ERP systems
- Using Apigee to manage APIs in SOA architecture

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 training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or learning difficulties.

in-company security (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

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, 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.