



# Developing APIs with Google Cloud's Apigee API platform

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**WE  
ARE  
CAS**

**Duración**

21 horas

**Modalidad**

Aula Virtual

**Learning by  
doing****Curso Oficial**

# Developing APIs with Google Cloud's Apigee API platform

## Objetivos:

- Explore and put into practice API design, development and management concepts
- Understand the value of API-first development and how to apply it
- Describe the fundamentals of REST API design
- Describe API products, API product strategies, and how to publish APIs to a developer portal
- Understand the role of user authentication and authorization and the importance of API security
- Understand the out-of-the-box platform capabilities for implementing mediation, traffic management, caching, and fault handling
- Describe the value and use of API analytics
- Understand the deployment options for the Apigee platform

## Requisitos:

Familiarity with HTTP, XML, JSON, and JavaScript is helpful

## Material del curso:

Documentación Oficial de Google Cloud - Developing APIs with Google Cloud's Apigee API platform

## Perfil del docente:

- Formador Certificado por GCP
- Más de 5 años de experiencia profesional
- Más de 4 años de experiencia docente
- Profesional activo en empresas del sector IT

## Metodología:

- "Learning by doing" se centra en un contexto real y concreto, buscando un aprendizaje en equipo para la resolución de problemas en el sector empresarial.
- Aulas con grupos reducidos para que el profesional adquiriera la mejor atención por parte de nuestros instructores profesionales.
- El programa de estudios como partners oficiales es confeccionado por nuestro equipo de formación y revisado por las marcas de referencia en el sector.
- La impartición de las clases podrá ser realizada tanto en modalidad Presencial como Virtual.



## Contenidos:

### Modulo 1: Apigee Overview

- Understand the placement and role of API management in modern application development
- Define logical components and organizational structure of Apigee API platform
- Differentiate between Apigee flexible deployment models
- Explain the API lifecycle

### Modulo 2: API-First and OpenAPI Specifications

- Describe the fundamentals of REST API design
- Understand the value of API-first development and how to apply it.
- Discuss OpenAPI specifications and their use in the context of API-first development

### Modulo 3: API Proxies

- Define the building blocks of APIs and API proxies
- Describe how APIs proxies work and how capabilities such as flows, policies, route rules, environment groups, and target servers play a role
- Describe how APIs are exposed
- Describe how API proxies connect to backend systems

### Modulo 4: API Products

- Define API products and API product strategies
- Understand the role of developers, applications, and API keys in API management
- Describe the API publication process
- Understand API responses and status codes for REST APIs

### Modulo 5: Authentication, Authorization, and OAuth

- Discuss the importance of API security
- Understand the value of application identity
- Understand the role of user authentication and authorization
- Gain deep understanding of OAuth (access tokens, refresh tokens, common patterns for all grant types) and its application in the context of API design and management
- Discuss federated identity and the use of JSON Web Tokens in API proxies

### Modulo 6: Content, Transport, and Internal Security

- Explore platform capabilities for protecting against content-based attacks
- Discuss transport security and how to protect the connection between Apigee and backend services
- Understand how to protect sensitive data using KVMs, data masking, and private variables

### Modulo 7: Mediation

- Understand the out-of-the-box platform capabilities for implementing mediation and fault handling
- Describe implementation patterns and policies for JSON, XML, and SOAP
- Understand extensibility options using Service Callouts, JavaScript, and Java
- Explore development practices and capabilities used to reuse, share, and enforce execution of flows and policies



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