



API Design and Fundamentals of Google Cloud's Apigee API Platform

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Mike: Welcome to API Design and Fundamentals, the first course in Developing APIs with Google Cloud's Apigee API platform.

Topics

- Overview of Apigee and API lifecycle
- REST API design
- API-first design and OpenAPI specifications
- API proxies
- API products

This course will introduce you to Apigee and its features.

You will learn about the API development lifecycle.

You will also learn about REST APIs, and what to consider when designing them.

We will discuss API-first development, and how OpenAPI specifications can be used to define an API interface.

We'll also discuss the main sections of an Apigee API proxy, the proxy endpoint, target endpoint, route rules, and flows. You will learn how these are used when you create your APIs. You will also learn about the logic and modules that are used to build your proxies within proxy flows: conditions, variables, and policies.

We'll learn about API products, how they are used to package your APIs for use by app developers, and see an example of how API products might evolve in a real world scenario.

Topics

- Overview of Apigee and API lifecycle
- REST API design
- API-first design and OpenAPI specifications
- API proxies
- API products
- Labs

During this course you will explore these topics in a series of labs, in which you build and test API proxies.

You will build a retail API proxy that calls a backend service, and you will protect your proxy so that it can only be called by an app that has registered to use the API. Other labs will explore providing different levels of service to different applications and using the Apigee proxy trace tool.