



Labs in this course

What is Apigee X?

The new software-as-a-service Google Cloud-hosted version of Apigee is called Apigee X. Apigee X is fully integrated with Google Cloud. This version of the *Developing APIs with Google Cloud's Apigee API Platform* course series teaches Apigee concepts using Apigee X, and all of the labs in this version utilize Apigee X organizations.

Evaluation orgs

The previous version of the course required the learner to create an Apigee Edge evaluation organization. The proxies from the labs would be built within that evaluation org.

Apigee X is fully integrated with Google Cloud, which enables the creation of a separate Apigee X organization for each lab. You may still create your own Apigee X evaluation organization, but your evaluation organization will not be used for the labs. See the [Apigee documentation](#) for more details.

Labs build upon each other

13 labs in this course series build upon each other. For example, when starting one of these labs, the Apigee organization will start with the API proxy and assets that were the solution for the previous lab already deployed.

Timeline for org provisioning

An Apigee organization takes close to a half hour to provision. For a normal organization, this is generally a one-time process.

For this course, an organization needs to be built each time you run a lab. The labs have been designed to allow you to complete lab tasks without the provisioning of the organization being fully completed. There are instructions in the labs that will let you know when each step of the provisioning process has been completed.

Google Cloud

For more information visit google.com/cloud

It typically takes about 5 minutes until you are first allowed into the lab. After these 5 minutes, the management plane for Apigee is available. At this point you may create and edit API proxies, shared flows, and target servers. The beginning of your lab will generally involve creating or editing an API proxy.

Approximately 15 minutes later, the Apigee runtime is created. At this time, API products, developers, apps, and KVMs may be created and edited.

Approximately 10 minutes later, the eval environment will be attached to the Apigee runtime, and API proxies can be deployed to the runtime and accept API requests. At this point, all the steps in the lab may be completed.

The provisioning dashboard (shown below) indicates how much of the provisioning process has been completed. The labs will provide instructions for accessing the dashboard, as well as guidance for when you will need to wait for provisioning to complete.

- Lab Startup Tasks -			
Progress	Time	State	Task
<div></div>	02:40	completed	Create proxies, shared flows, target servers (environment available)
<div></div>	18:11	completed	Create API products, developers, apps, KVMs (runtime is available)
<div></div>	19:07	started	Create KVM data, proxies handle API traffic (environment attached to runtime)
<div></div>	01:00	completed	Provide access to lab
<div></div>	01:20	completed	Create Apigee load balancer at api-test-qwiklabs-gcp-01-9d82ade68e5e.apigee-apijam.dev
<div></div>	17:34	started	Full provisioning of Apigee org qwiklabs-gcp-01-9d82ade68e5e in us-east1-b
<div></div>	00:47	completed	Connect load balancer to runtime instance

Tracing APIs

Once the environment is attached to the runtime, and your API proxy has been deployed, you may trace API calls being made to the API proxy.

The connection between the management plane and the runtime instance is asynchronous. This means that when a trace session is started, it may take a short time until the runtime receives the request and begins tracing API calls. In addition, there will be a short delay after a call completes before the call is visible in the trace tool.