How is Apigee X different from Apigee Edge?

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 utilized an Apigee Edge evaluation organization that you would need to create. You would build your labs within that evaluation org.

Apigee X is fully integrated with Google Cloud, which enables Qwiklabs labs to create a separate Apigee X organization for use in each lab. You may choose to create your own Apigee X evaluation organization, but it is no longer required for the labs.

Provisioning of an Apigee X evaluation org requires a Google Cloud billing account. If you would like to create your own evaluation organization, please follow the [provisioning instructions](#) in the Google Cloud docs.

Key feature differences between X and Edge

- Apigee X is [fully integrated with Google Cloud](#), and requires a customer-owned Google Cloud project. Customers are in full control of the inbound and outbound networking for Apigee X, because all runtime traffic must flow through the customer-controlled project.

- Customers can utilize Google's global private network by peering with their private data centers or virtual private clouds, and Google Cloud offerings like Cloud Armor and reCAPTCHA can be used to protect APIs.

- Apigee X uses [environment groups](#) to map hostnames to environments, while Apigee Edge uses virtual hosts. Northbound (client to Apigee) TLS requests can be terminated at the Apigee

gateway for Apigee Edge, but are terminated in the customer project for Apigee X, providing more control over access to APIs. Southbound (Apigee to backend services) requests are unchanged in Apigee X.

- Apigee Edge uses its own role-based access control (RBAC) for controlling access to the console and management API. Apigee X enhances security by managing users and roles using Google Cloud's Identity and Access Management (IAM).

Further details on differences

Further differences can be found in the Apigee product comparison documentation.

Google Cloud