FreshGravity™
Driving Digital Success

Apigee X Migration Offering

Overview

Today, enterprises on their digital transformation journeys are striving for "Digital Excellence" to meet new digital demands. To achieve this, they are looking to accelerate their journeys to the cloud and revamp their API strategies. Businesses are looking to build APIs that can operate anywhere to provide new and seamless customer experiences quickly and securely. In February 2021, Google announced the launch of the new version of the cloud API management platform Apigee called Apigee X. It will provide enterprises with a high performing, reliable, and global digital transformation platform that drives success with digital excellence. Apigee X integrates deeply with Google Cloud Platform offerings to provide improved performance, scalability, controls and AI powered automation & security that clients need to provide un-parallel customer experiences.

Partnerships

Fresh Gravity is an official partner of Google Cloud and has deep experience in implementing GCP products like Apigee/Hybrid, Anthos, GKE, Cloud Run, Cloud CDN, Appsheet, BigQuery, Cloud Armor and others.

Google Cloud   apigee

Apigee X Value Proposition

Apigee X provides several benefits to clients for them to consider migrating from their existing Apigee Edge platform, whether on-premise or on the cloud, to better manage their APIs.

Enhanced customer experience through global reach, better performance, scalability and predictability

- Global reach for multi-region setup, distributed caching, scaling, and peak traffic support

- Managed autoscaling for runtime instance ingress as well as environments independently based on API traffic

- AI-powered automation and ML capabilities help to autonomously identify anomalies, predict traffic for peak seasons, and ensure APIs adhere to compliance requirements.

Improved platform and API security posture

- Role-based access control and user management via centralized GCP Identity and Access Management (IAM) and Cloud Identity

- DDoS Protection and Web Application Firewall (WAF) capabilities at Google Cloud scale available via Cloud Armor

- Self-managed encryption keys for increased flexibility and governance

Greater flexibility and controls for API platform deployment and network configuration

- Self-service provisioning of Apigee organizations, environments, and environment groups

- Seamless interconnectivity between customer and Google Cloud VPCs

- Private access for northbound and southbound

- Self-service network address translation (NAT) IP management

Key differences between Apigee X and Apigee Edge

While Google has released Apigee X with a host of new features and capabilities, it has also deprecated or removed some of the features available in Apigee Edge and SaaS offerings. Below are some of the key improvements and changes to the capabilities provided in Apigee X.

Installation

Installation is completely Self-Service and has been simplified with the help of installation wizard which accepts minimal inputs to give customers more control on the configuration of the platform.

Architecture

Built on a cloud native architecture using container technologies that supports auto-scaling that is well integrated with Google's cloud services for security and load balancing.

Security Services

Comes with integrated security services for user provisioning, access management, and certification management that are managed through GCP services. Its management APIs are now managed under Google APIs (apigee.googleapis.com) that provides a uniform security experience.
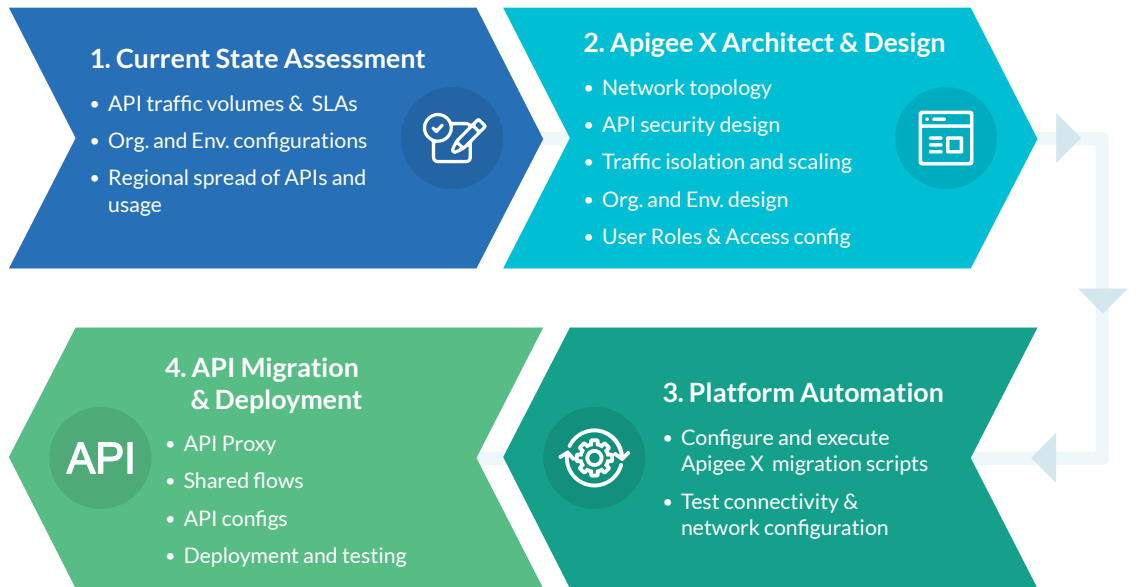
Policy Support

Comes with complete support for most of the policies in Apigee Edge. However, some policies have been updated and changed. Runtime support for Node.js has been removed.

Fresh Gravity's Apigee X Migration Approach

With the detailed understanding and knowledge of Apigee and Apigee X, Fresh Gravity has developed a four step Apigee X migration approach, as outlined below, to help our clients deliver digital excellence.

1. Current State Assessment
- API traffic volumes & SLAs
- Org. and Env. configurations
- Regional spread of APIs and usage

2. Apigee X Architect & Design
- Network topology
- API security design
- Traffic isolation and scaling
- Org. and Env. design
- User Roles & Access config

4. API Migration & Deployment
- API Proxy
- Shared flows
- API configs
- Deployment and testing

3. Platform Automation
- Configure and execute Apigee X migration scripts
- Test connectivity & network configuration

Fresh Gravity is already in the process of helping our clients with this migration in a well-defined and effective way.

How Can Fresh Gravity Help?

Migrating to Apigee X will enable organizations to accelerate their digital transformation journeys by building a secure, scalable and reliable API ecosystem to drive innovation that enables digital excellence for their end customers. However detailed planning and coordination is required across multiple teams and stakeholders to migrate from Apigee Edge or OPDK to Apigee X. Organizations must consider the migration's impact on security policies, businesses processes, technologies, data, staff, maintenance, etc.

Fresh Gravity's years of focused and proven Apigee experience can help our clients seamlessly migrate to a modern API platform architecture with reduction in effort by up to 30% measured against an internally managed project. This also allows our clients to free up their internal resources to focus on other key initiatives that must be managed in-house. We also have deep experience to offer our clients with implementing the latest version Apigee X.