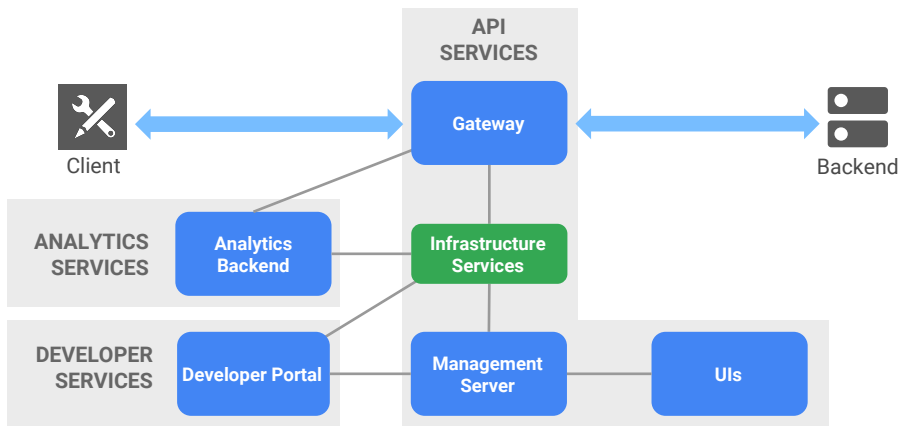# Technology Stack

Google Cloud

Apigee Edge

- Capabilities
- Components
- Technology stack

apigee

Capabilities

Edge is comprised of several stateless components that use infrastructure services to persist data:

- Gateway: Routing and API calls processing.
- UIs: Enterprise UI, Developer Portal.
- Infrastructure Services: Persistence of runtime, analytics and management.
- Management Server: Provides REST API for all configuration and management tasks.

Note: Monetization, not shown in the diagram below, is part of Developer Services and leverages Gateway, Analytics Services and Management Server.
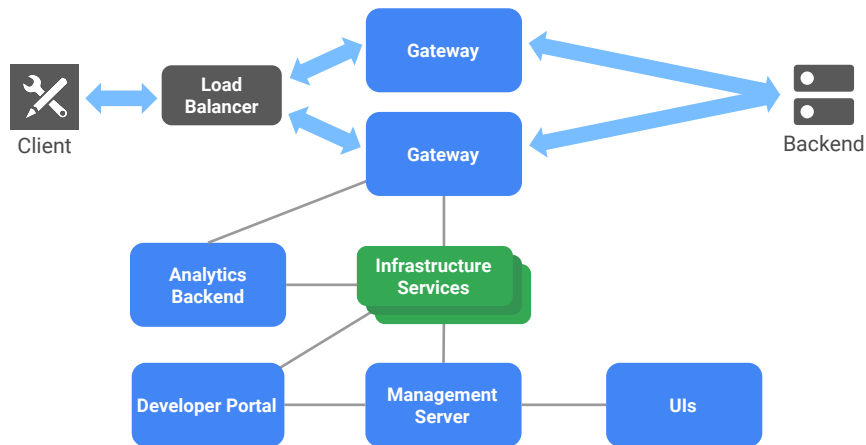
Scalability

- Horizontally scalable.
- Additional Gateway components can be added to keep up with API volume, high availability and resiliency requirements
- As the number of Gateway increases, some of the supporting infrastructure services may need to scale out.
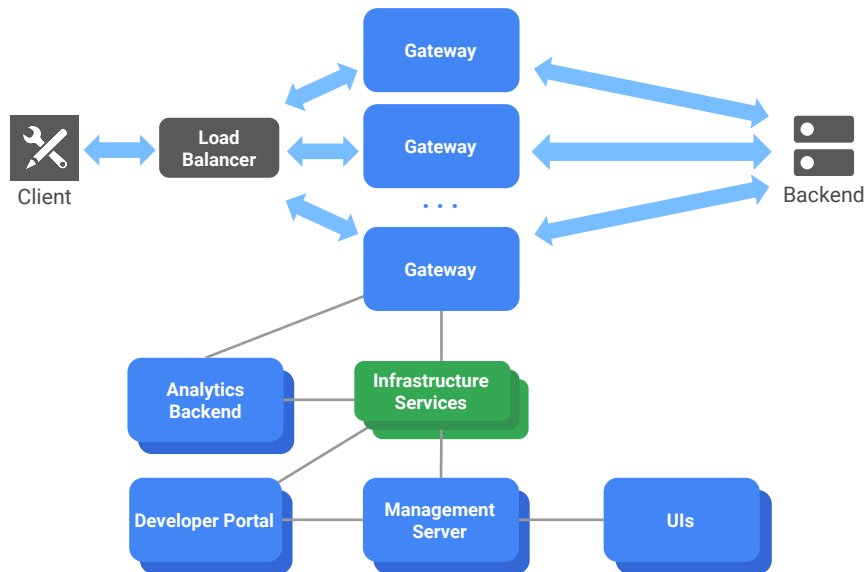
Scalability

- Management Server, Analytics Backend and Developer Portal can also be set up in an HA way.
- Multiples instances of these capabilities within a single zone or across zones is possible.
- Gateway, Infrastructure services, analytics and other capabilities can scale-out independently from each other.
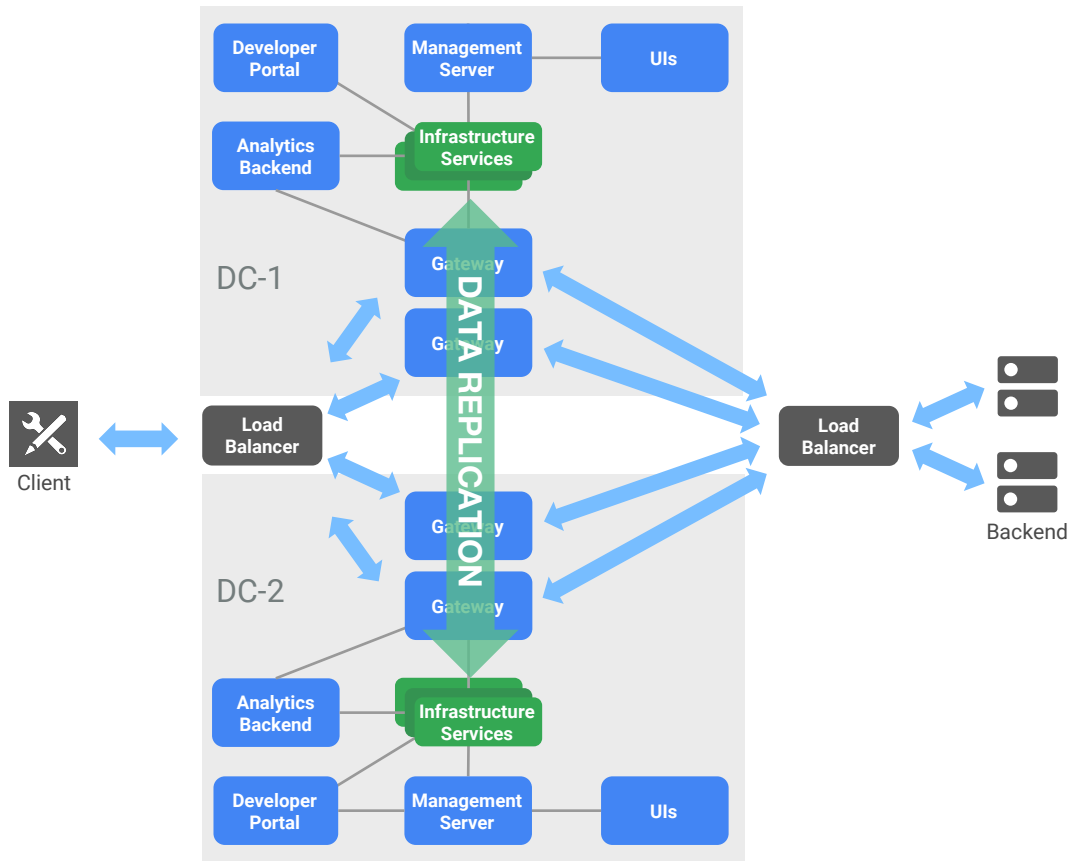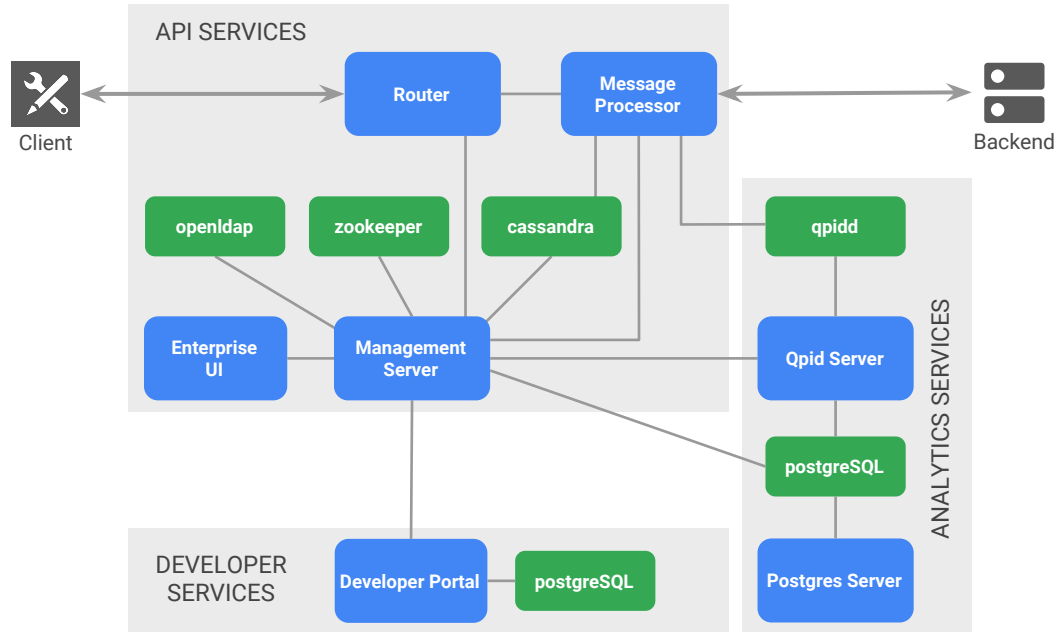
Scalability

- Multi-DC and DR scalability.
- Edge is capable of scaling across multiple DCs/Regions in a active/active fashion.
- Active data replication between sites using eventual consistency.

apigee

Components view

Each box represents a process. These processes placed on placed on dedicated dedicated VMs or grouped to share the same host.

apigee

apigee

Thank You