



Edge Microgateway

Overview

Agenda

- Edge Microgateway Overview
- Use Cases for Microgateway
- Digital Value Chain
- Deployment Architecture

What is Edge Microgateway?

- Microgateway is a Node.js application that can run anywhere Node.js can run provided that a public/private Edge installation is available.
- It has a plugin architecture with default plugins for OAuth, quotas and spike arrest
- Analytics are captured asynchronously and sent to Edge in batches
- Starting with version 2.3.1, it always starts in cluster mode
- Automatically reloads configuration changes made in Edge
- Automatically reloads configuration changes made within its configuration YAML file

Edge Microgateway

Custom Plugins

Create your own custom plugins in node.js and apply to both request and response flows. These will run directly on Edge Microgateway.

Traffic Management

Spike arrest and quota policies are applied as defined on Edge.

Security

OAuth 2 access token (JWT) and API Key verification is done in Edge Microgateway. API Key verification requires a connection to Edge.

Analytics

Analytics data sent to Edge asynchronously in batches. No impact on runtime traffic irrespective of Edge availability.

Operations

Use your own internal process and tools to deploy, manage and monitor Edge Microgateway.

Edge Microgateway

Rapid Deployment

Unlike a full deployment of Apigee Edge, you can deploy and run an instance of Edge Microgateway within a matter of minutes.

Network Proximity

You can install and manage Edge Microgateway in the same machine, subnet, or data center as the backend target APIs.

Reduced Latency

All communication with Apigee Edge is asynchronous and does not happen as part of processing client API requests.

Familiarity

Edge Microgateway uses and interacts with Apigee Edge features that Edge administrators already understand well.

Configuration

No programming is required to set up and execute Edge Microgateway out-of-the-box; everything is handled through configuration.

Edge Microgateway

Convenience

You can integrate Edge Microgateway with your existing application monitoring and management infrastructure and processes.

Simple

It's simple to install, configure, and maintain.

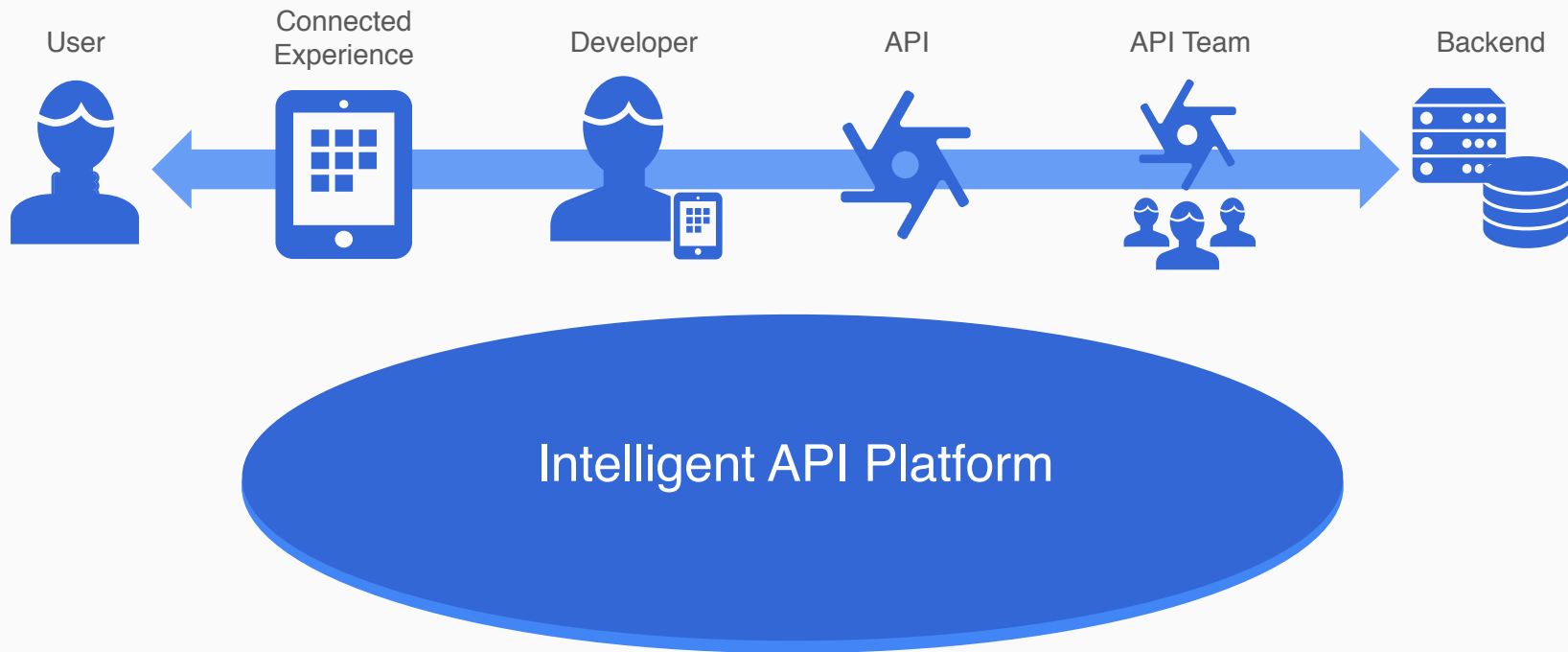
Logging

Log files detail all the normal and exceptional events encountered during API processing by Edge Microgateway.

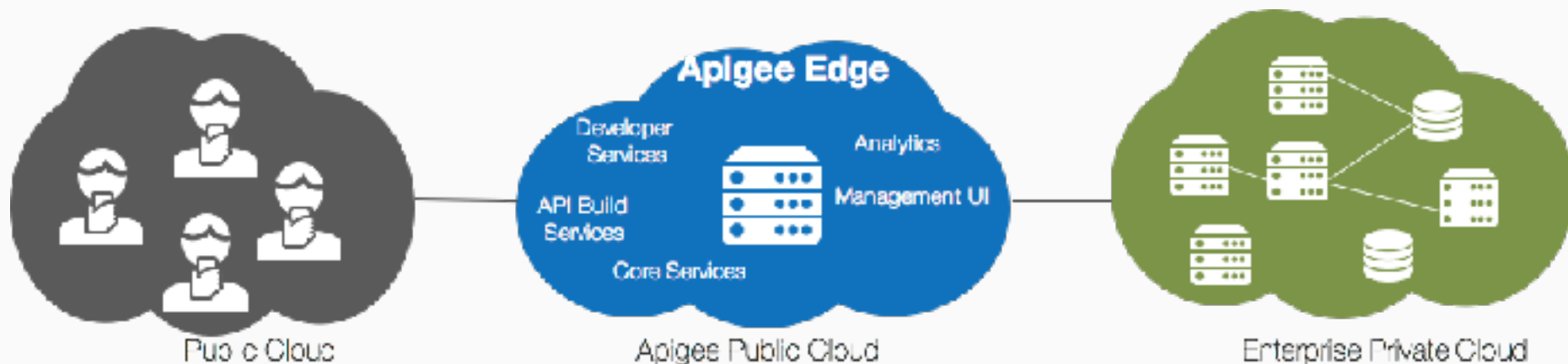
CLI

A command-line interface lets you start, stop, and restart Edge Microgateway, extract operating statistics, view log files, request access tokens, and more.

Intelligent API platform enables the digital value chain



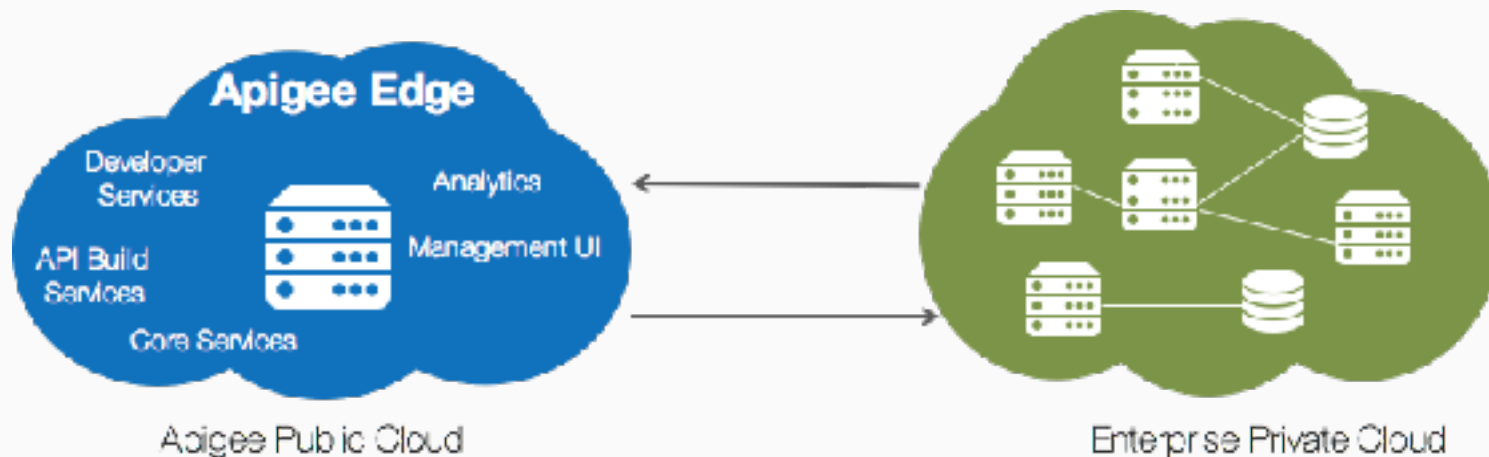
External & Partner APIs



Internal APIs



Internal APIs



What about latency and security?

Edge Microgateway



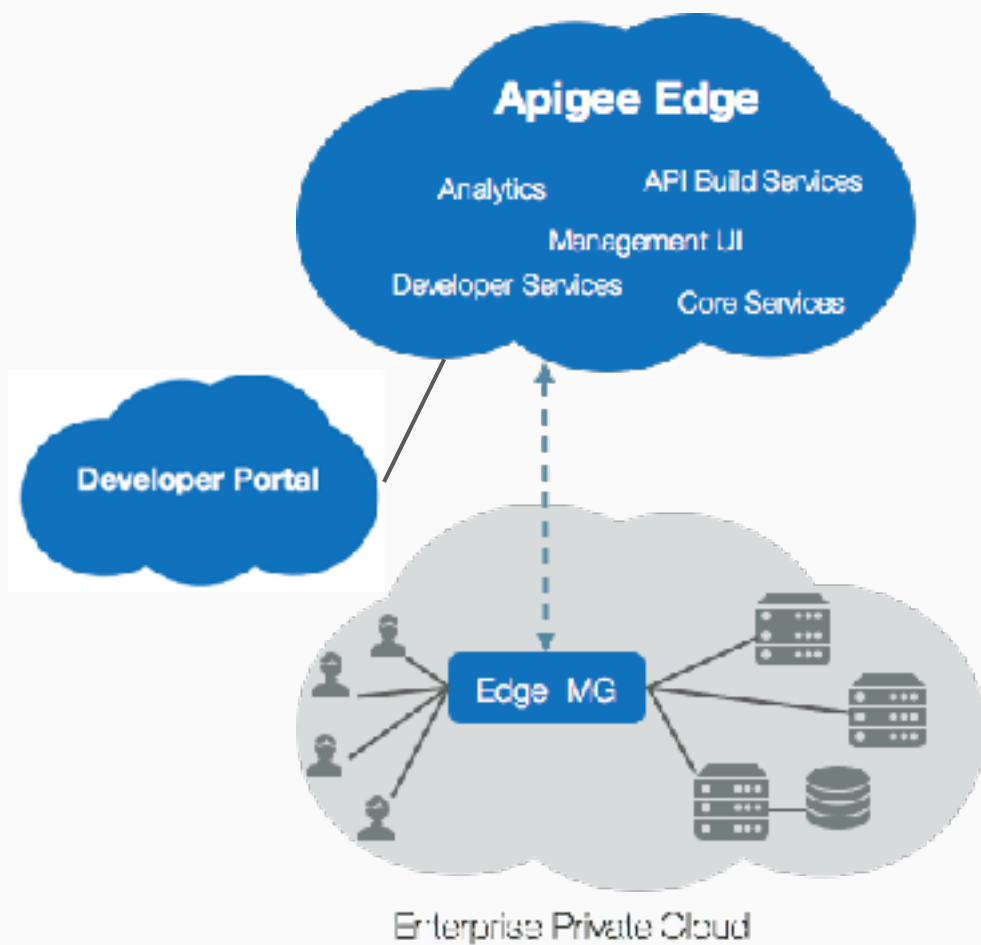
Objective

Deploy lean API runtime infrastructure in your private cloud, while deriving all the benefits of Apigee API management in the Cloud

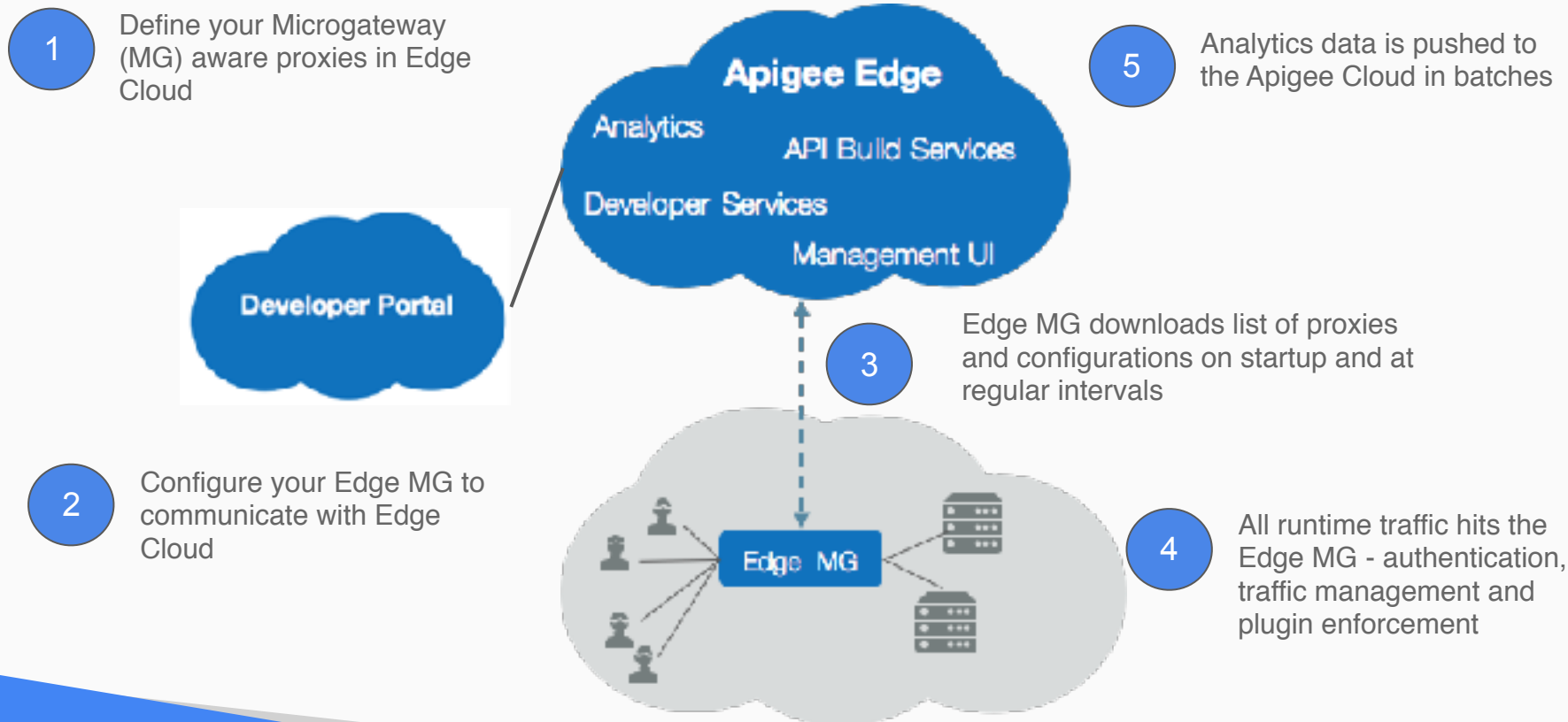


Use Cases

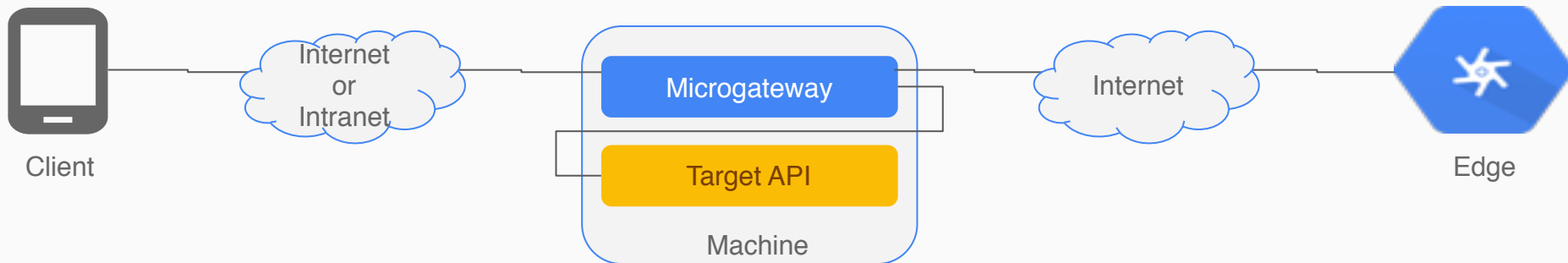
- Reduce latency of API traffic that is completely internal to the enterprise
- Keep API traffic within the enterprise approved boundaries for security or compliance purposes
- Treat internal API consumers differently from external usage



Edge Microgateway Deployment

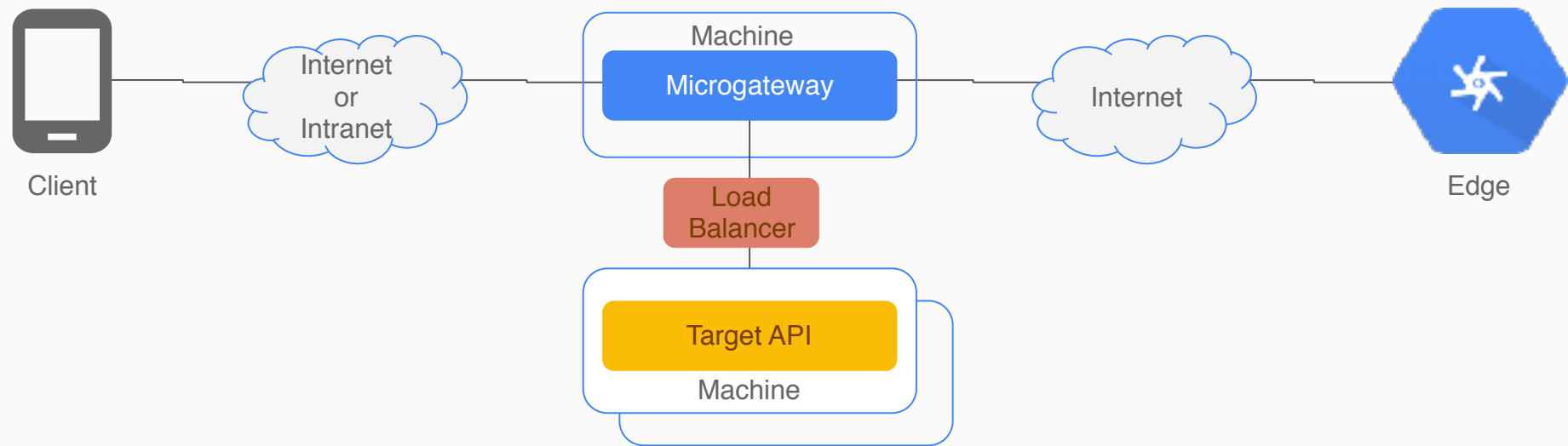


Edge Microgateway Deployment Architecture

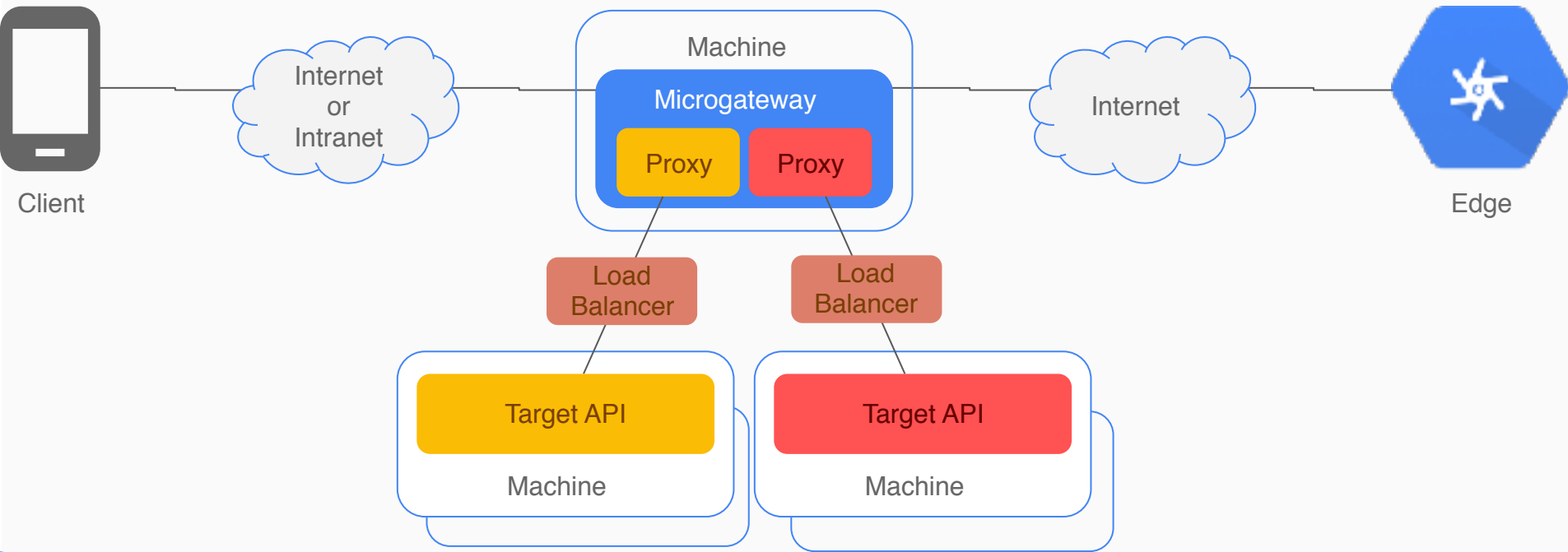


i.e. Edge Microgateway deployed in Cloud Foundry; EM running on same container as target application.

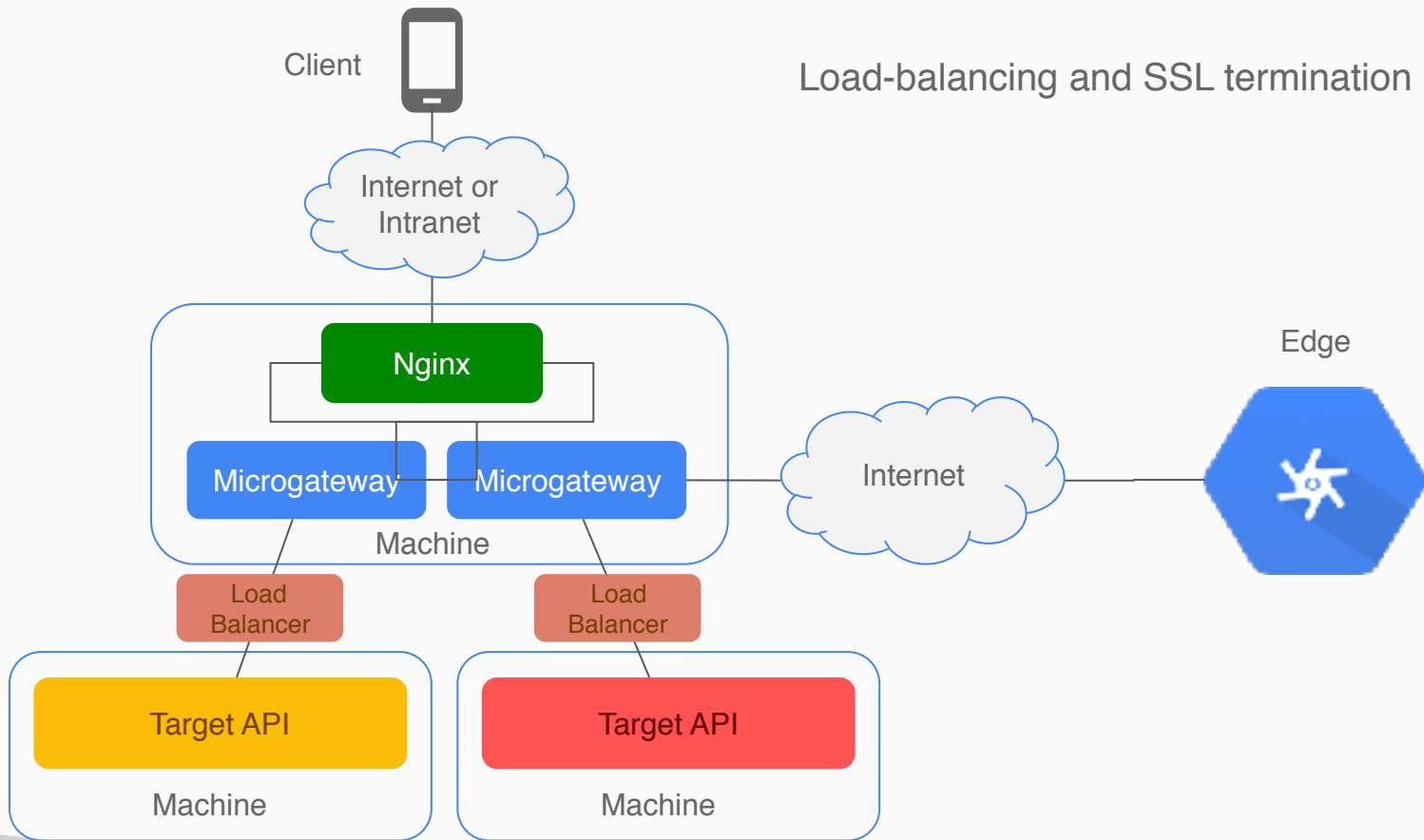
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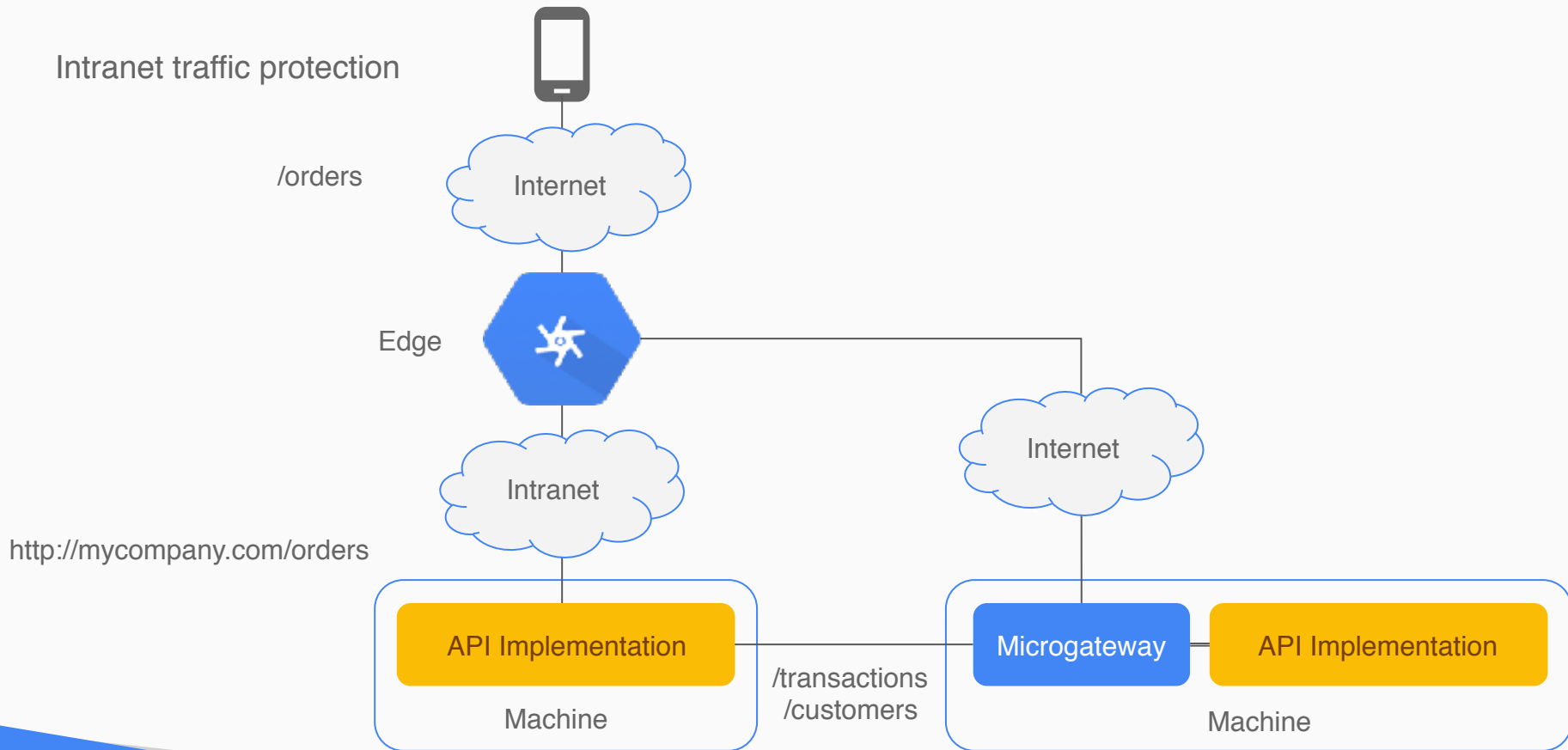
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THANK YOU