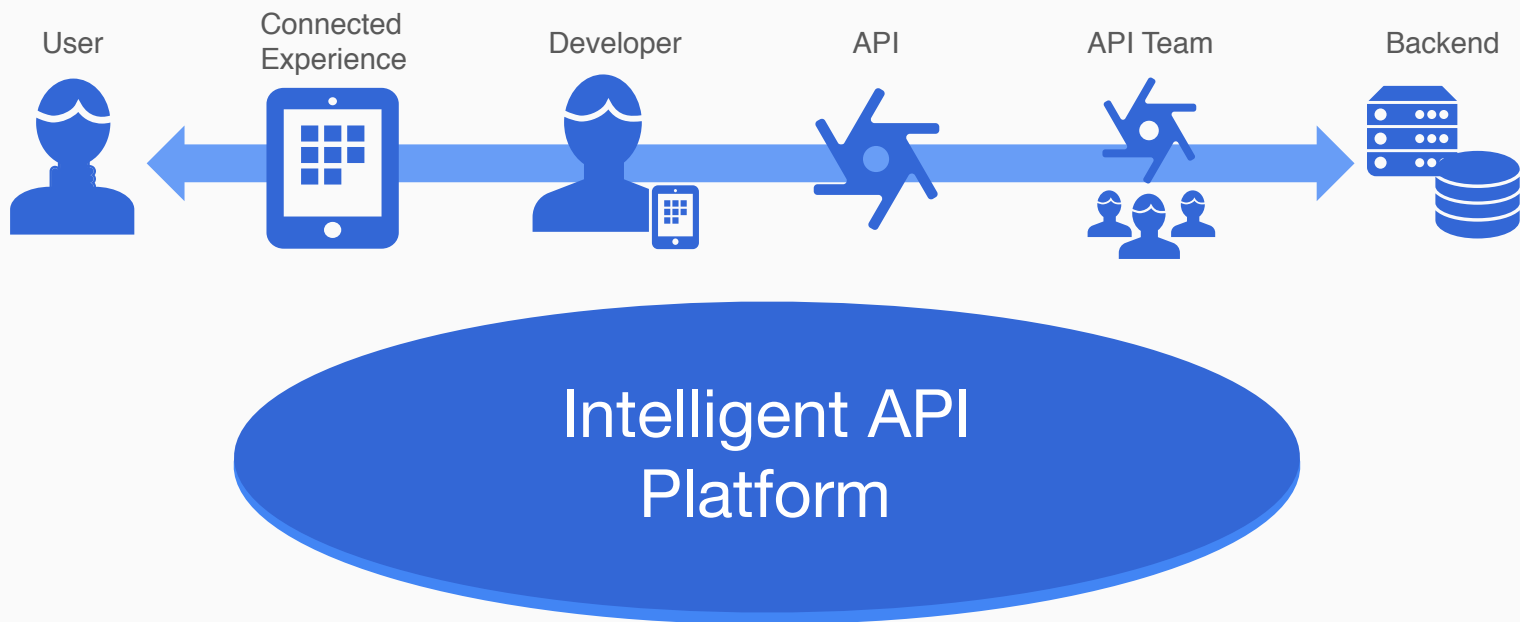




Edge Overview Series

Product Overview

Intelligent API platform enables the Digital Value Chain



edge

API Management

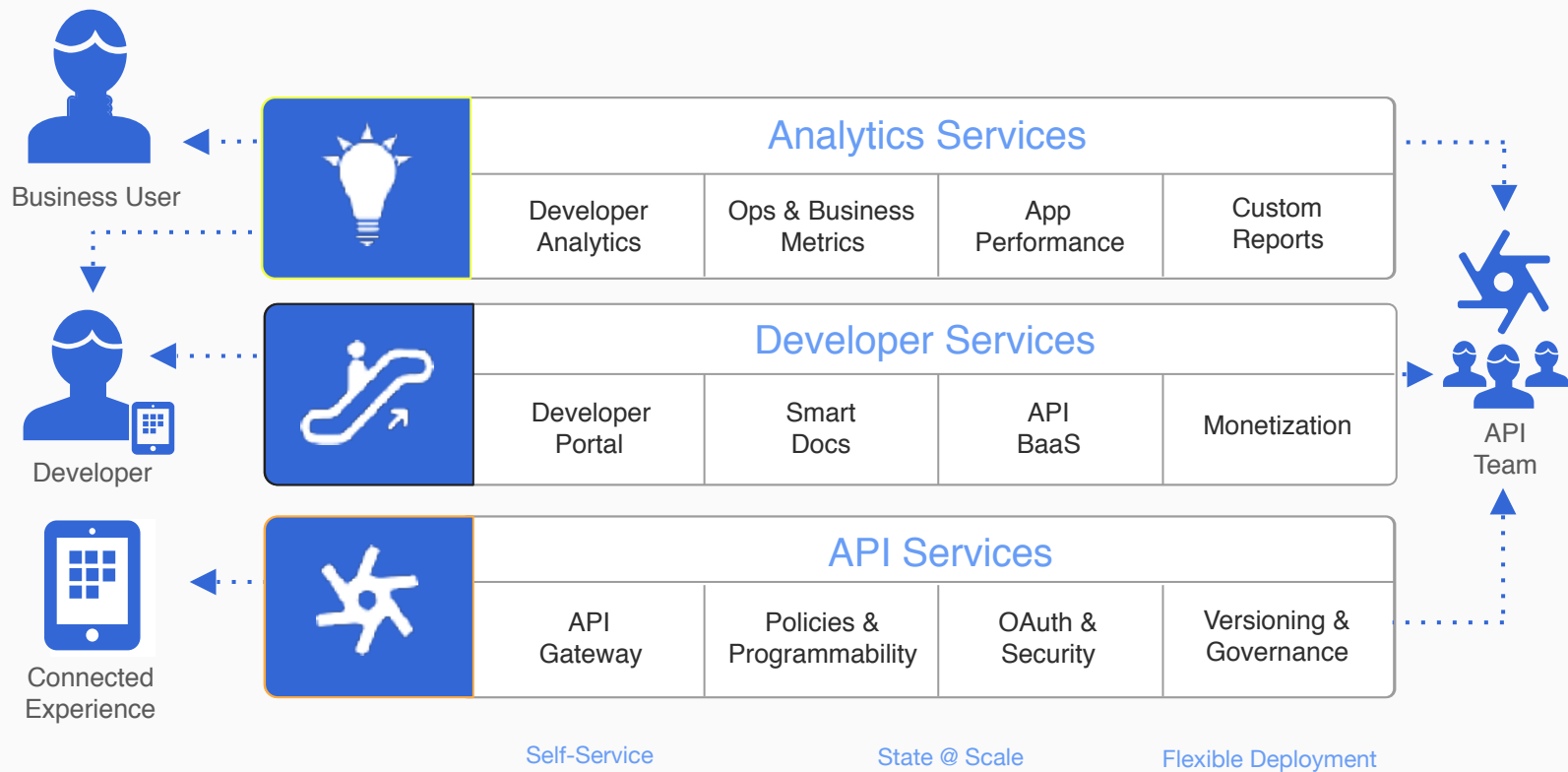
edge link

Internet of Things

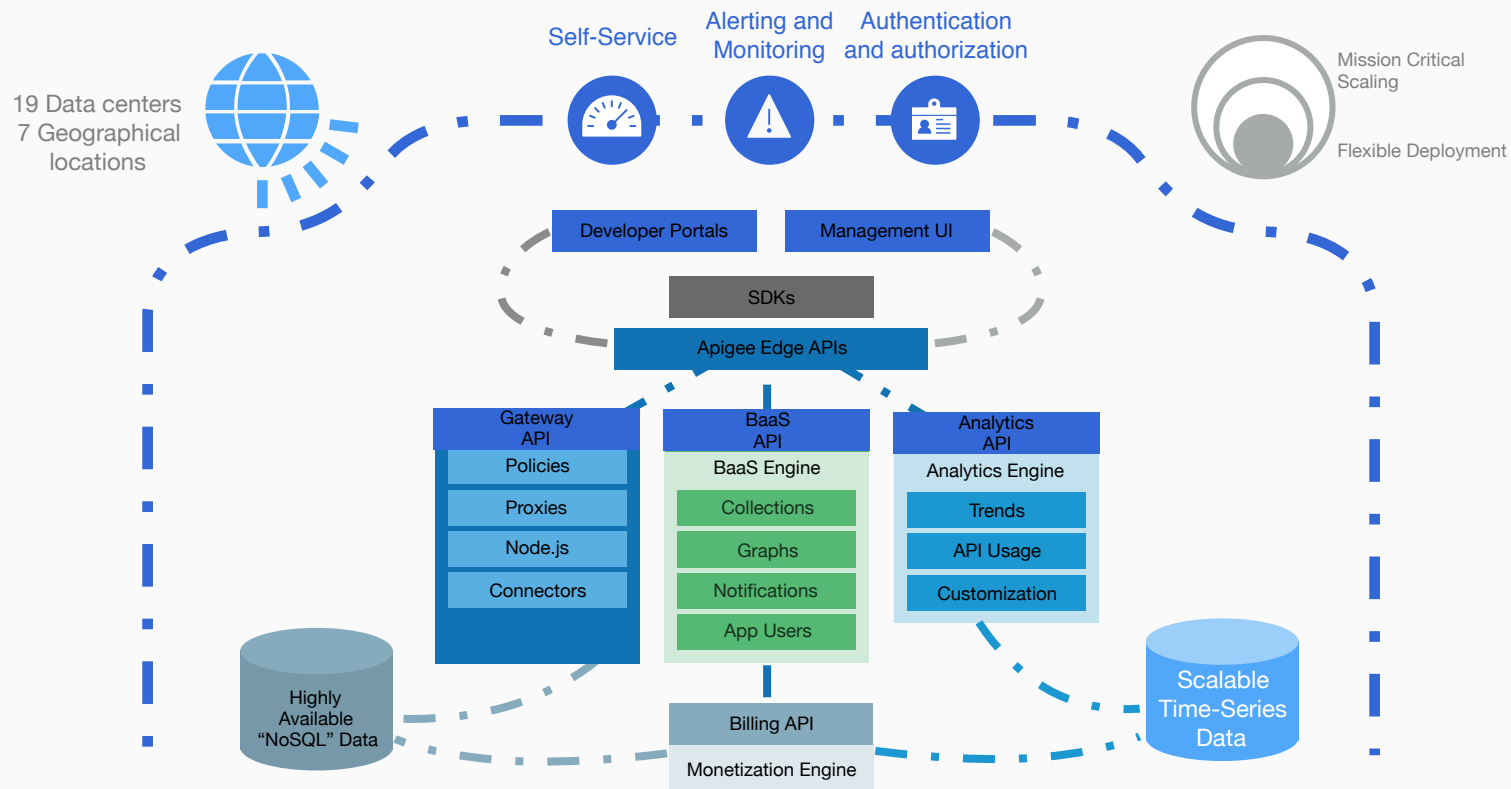
Public Cloud
Private Cloud
Hybrid

Intelligent API
Platform

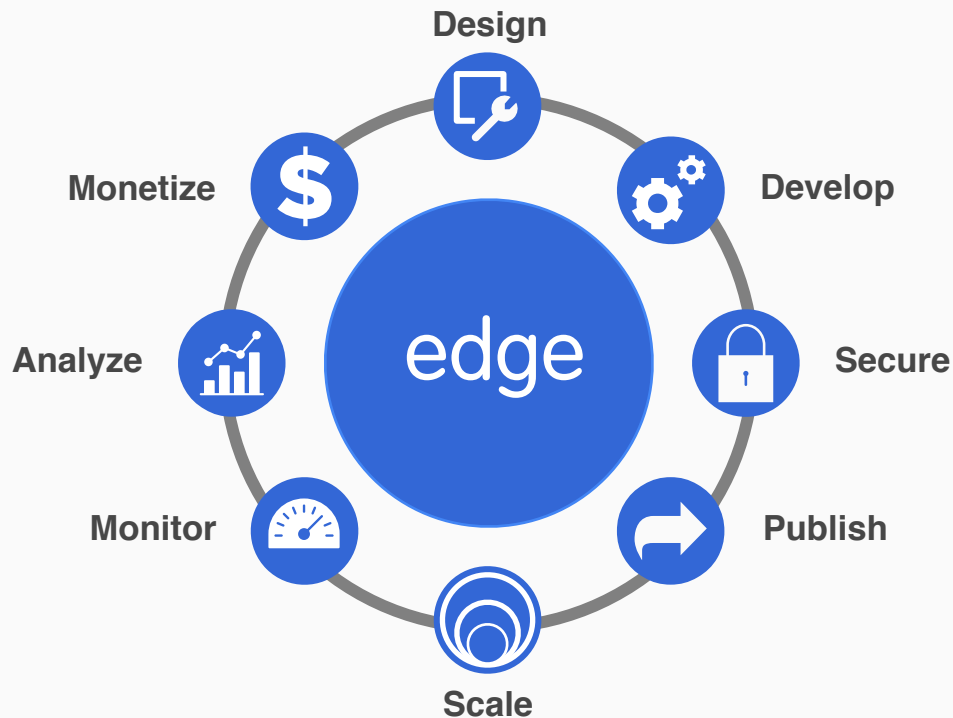
Edge - API Management



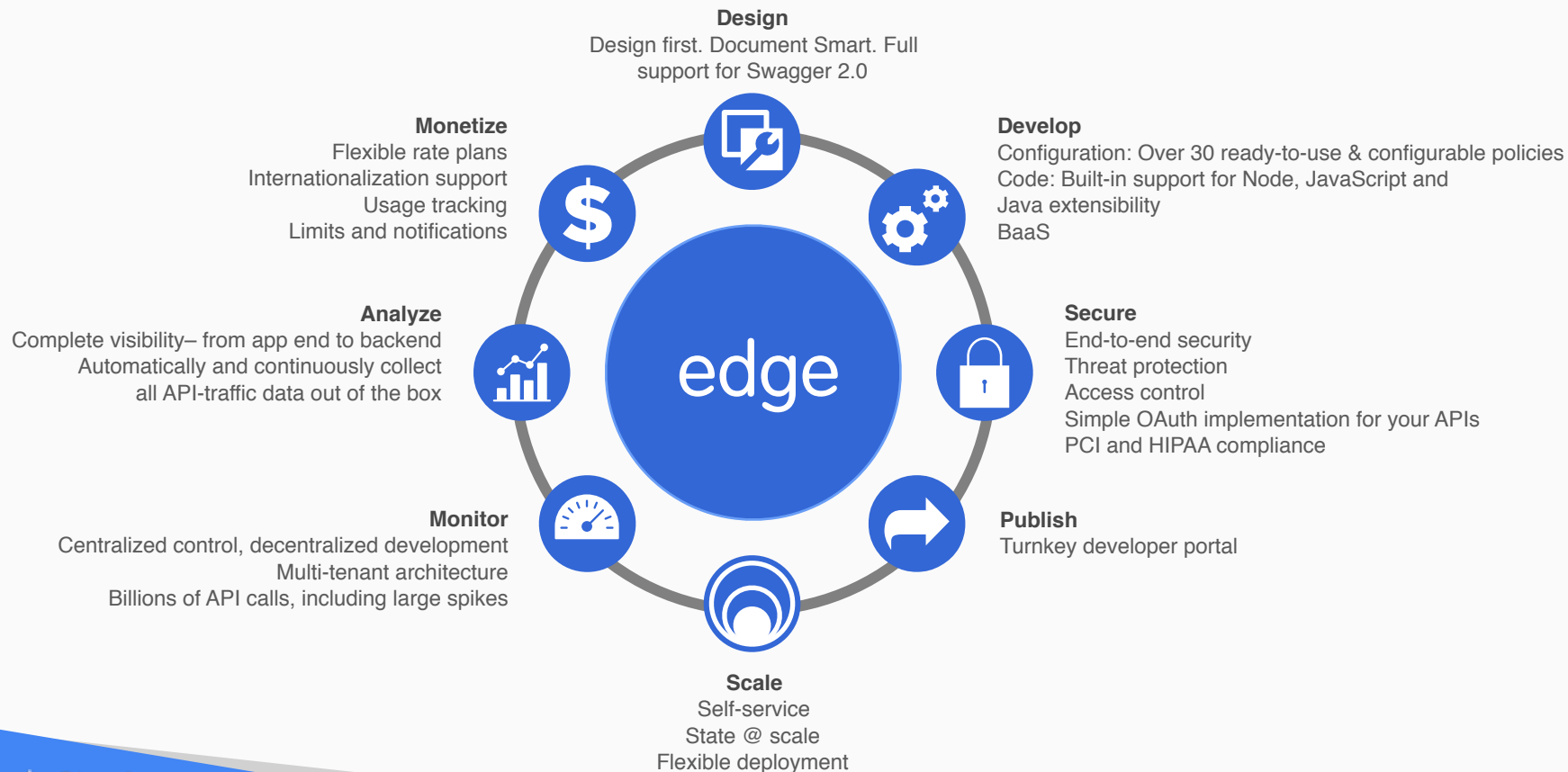
Edge: API-first - Built for APIs, Built with APIs



Complete and Unified Across the Entire API Lifecycle



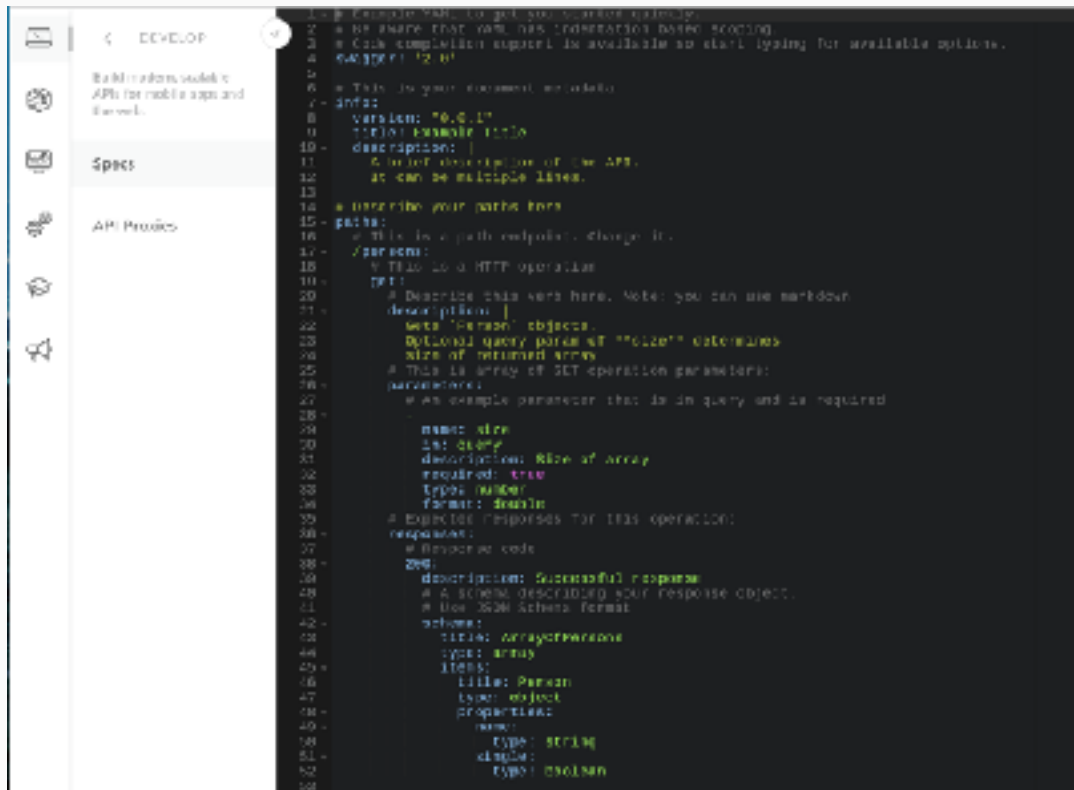
Complete and Unified Across the Entire API Lifecycle



Edge



Build more consumable APIs



```
1 # Example API, to get you started quickly.
2 # Be aware that OAS has indentation based SCOPING.
3 # Code completion support is available so start typing for available options.
4 # Example: /2.0/
5
6 # This is your document, so make it:
7 - info:
8   version: "0.0.1"
9   title: Example title
10   description: |
11     A brief description of the API.
12     It can be multiple lines.
13
14 # Describe your paths here
15 - paths:
16   # This is a path endpoint, change it.
17   /person:
18     # This is a HTTP operation
19     post:
20       # Describe this verb here. Note: you can use markdown
21       description: |
22         Gets 'Person' objects.
23         Optional query param of "size" determines
24         size of returned array.
25       # This is array of GET operation parameters:
26       parameters:
27         # An example parameter that is in query and is required
28         - name: size
29           in: query
30           description: Size of Array
31           required: true
32           type: number
33           format: double
34
35 # Explicit responses for this operation:
36 - responses:
37   # Success code
38   200:
39     description: Successful response
40     # A Schema described your response object.
41     # Use JSON Schema format
42     schema:
43       title: arrayofperson
44       type: array
45       items:
46         title: Person
47         type: object
48         properties:
49           name:
50             type: string
51           age:
52             type: number
```

Edge

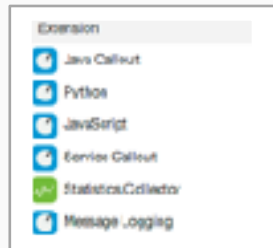
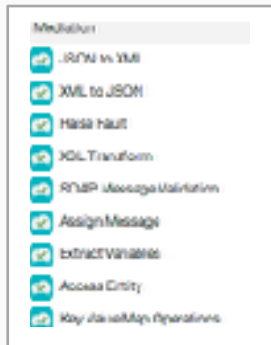
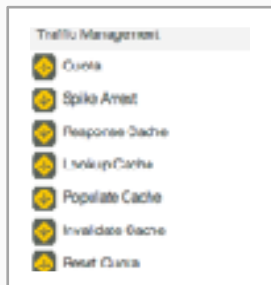


Build APIs faster



Manage interactions with API consumers and optimize performance

Transform, translate and reformat data for easy consumption



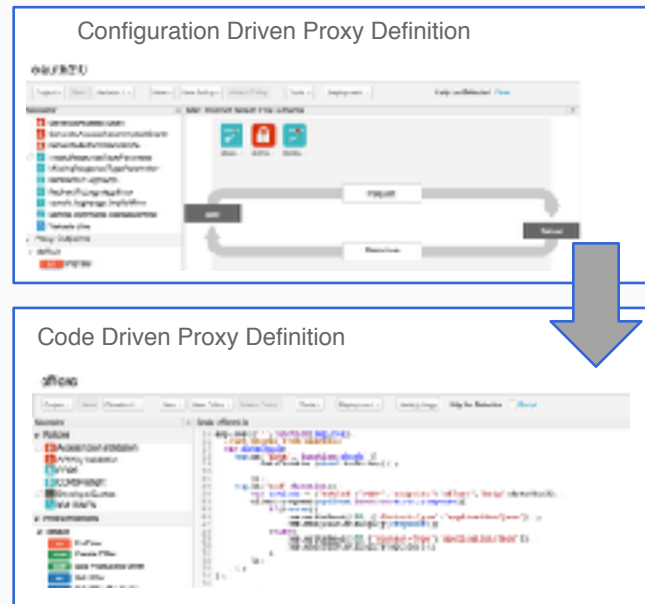
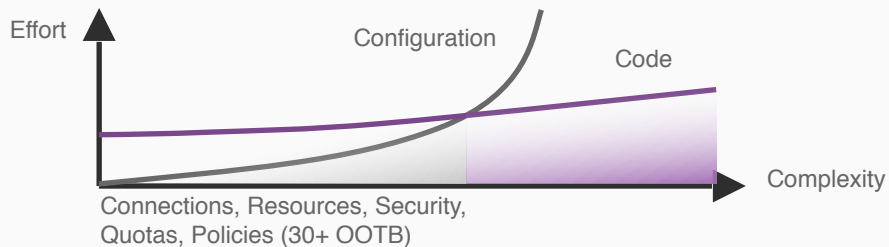
Secure APIs and protect back-end systems from attack

Extend with programming when you need it





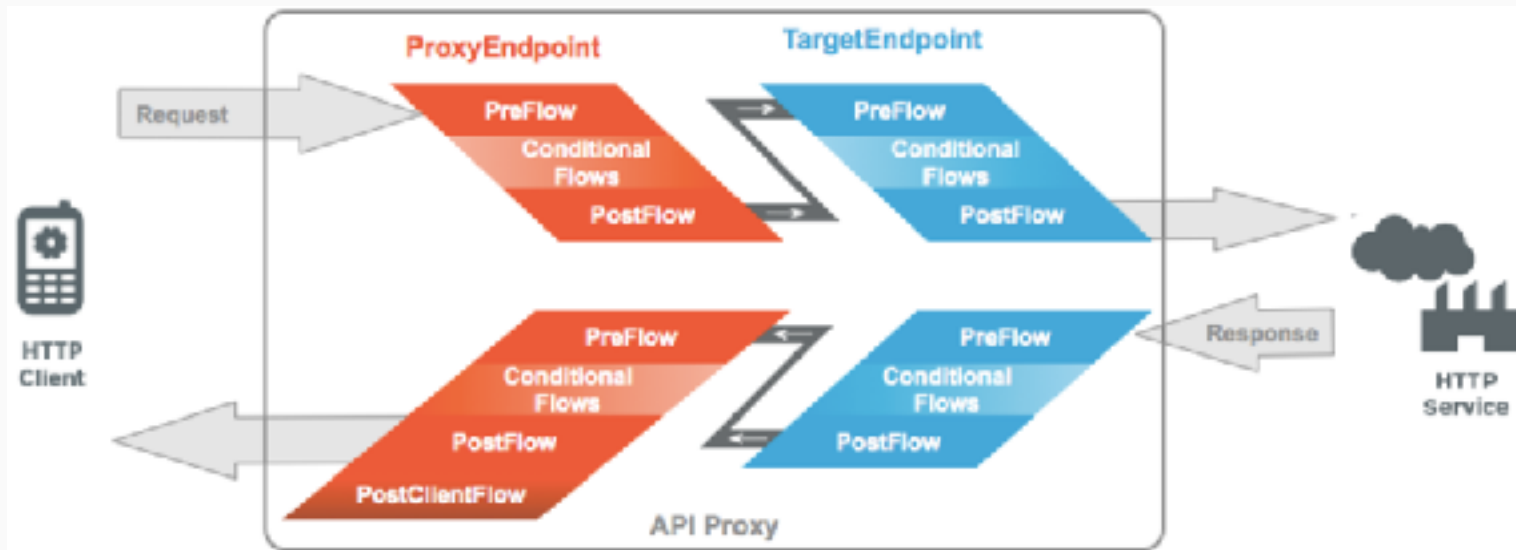
Increase reuse, consistency, and agility



Code and Configuration

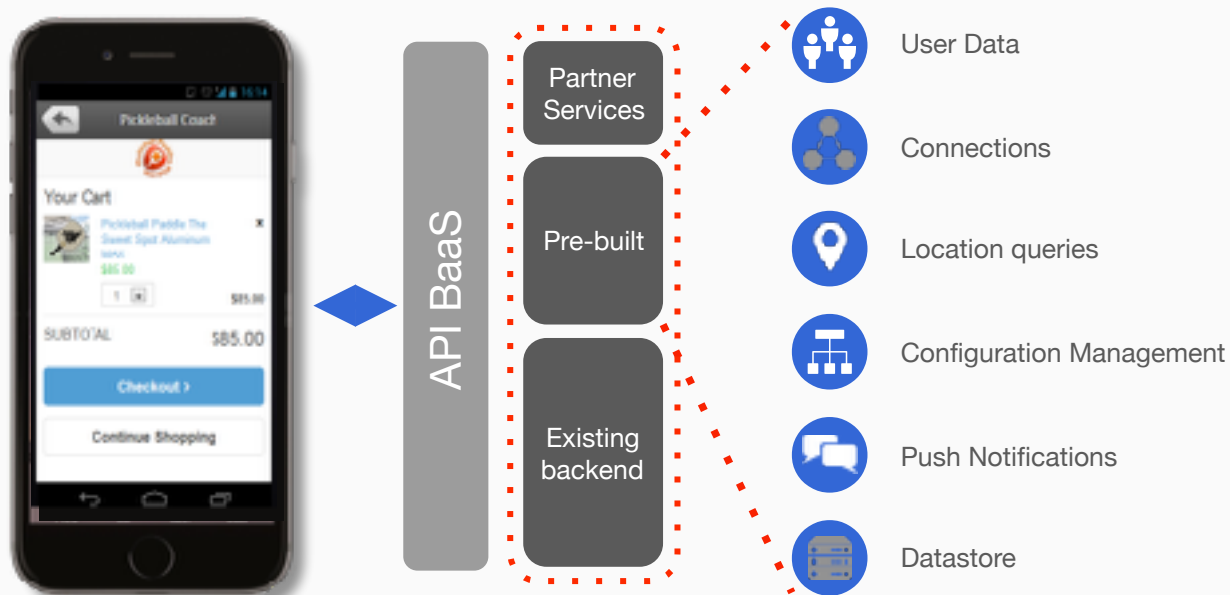


Enable fine grain controls in the API proxy



Segment each part of the flow, including default and non-default paths, as well as pre-flow and post-flow for both the request and response

Build apps faster



Built in back-end as a service to store data for your apps and provide out of box social login, push-notifications, activity streams and more

Edge



Secure all points of engagement



Users

OAuth2
MFA
Federated Login
IP Access
Control



Connected Experience

API key
OAuth2
Mutual
TLS



Developers

Access
Block
Revoke
SSO
RBAC



APIs

OAuth2
Quotas
Spike Arrest
Threat Protection
Intrusion
Detection
Bot Detection



API Team

RBAC
AD / LDAP
Audit

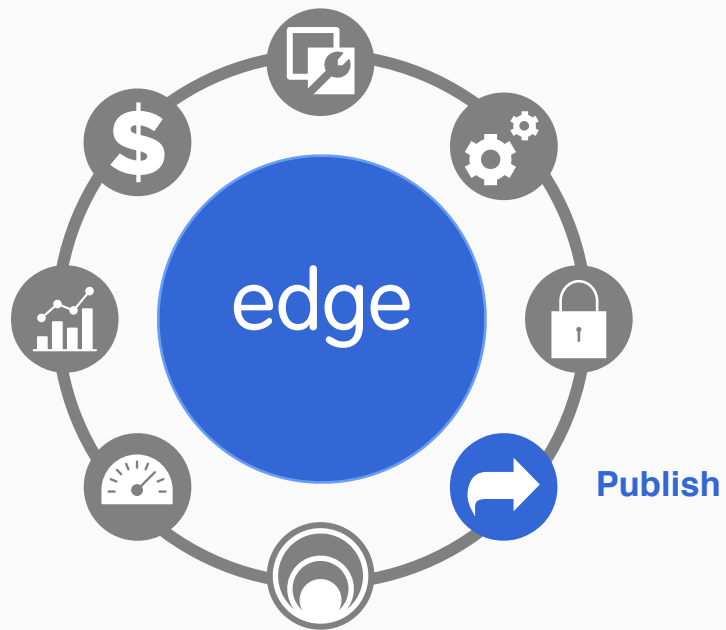


Back-end

Mutual TLS
IP Access
Control
Southbound VPN

End-to-end security
PCI and HIPAA compliance

Edge

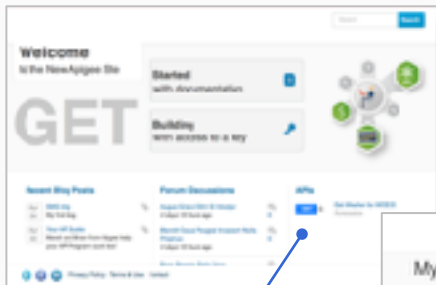




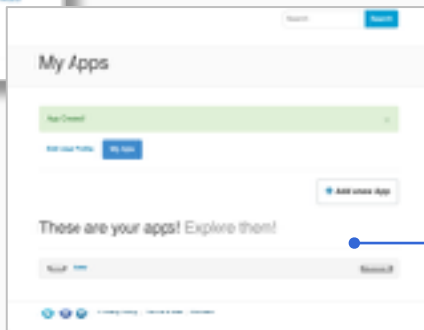
Make it easy for developers to use your APIs

“Reduced time to first app from 4 weeks to 6 hours.”

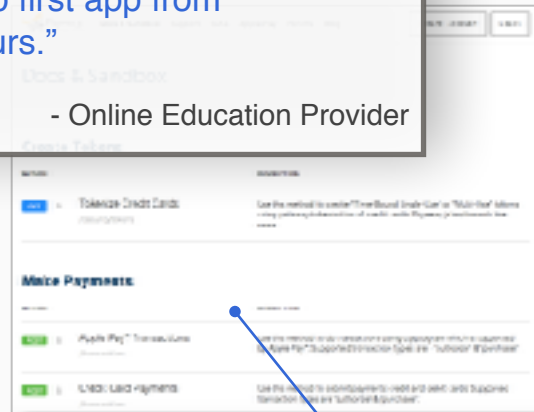
- Online Education Provider



Automatic or manual registration

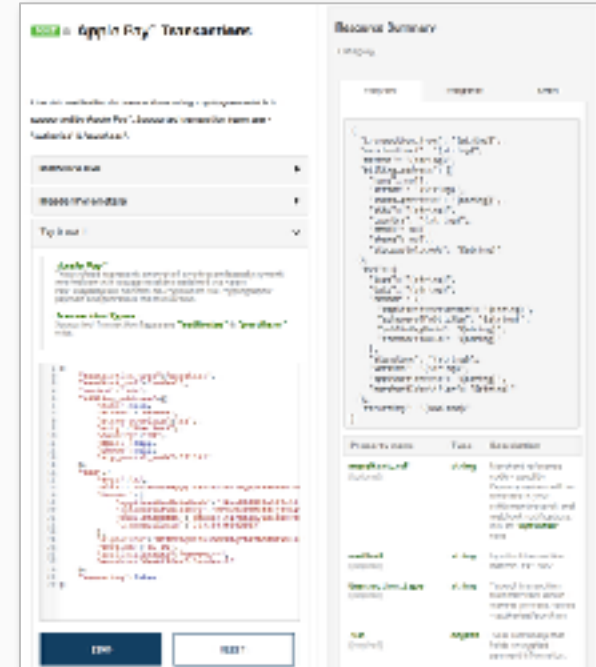


Self-service app key requests



Self-documenting

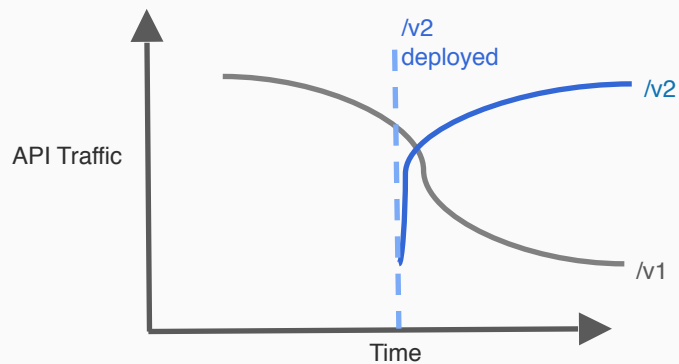
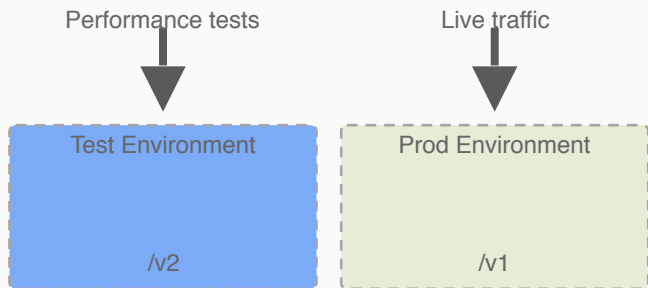
Turnkey developer self-service portal



Google Cloud



Easily manage multiple API versions

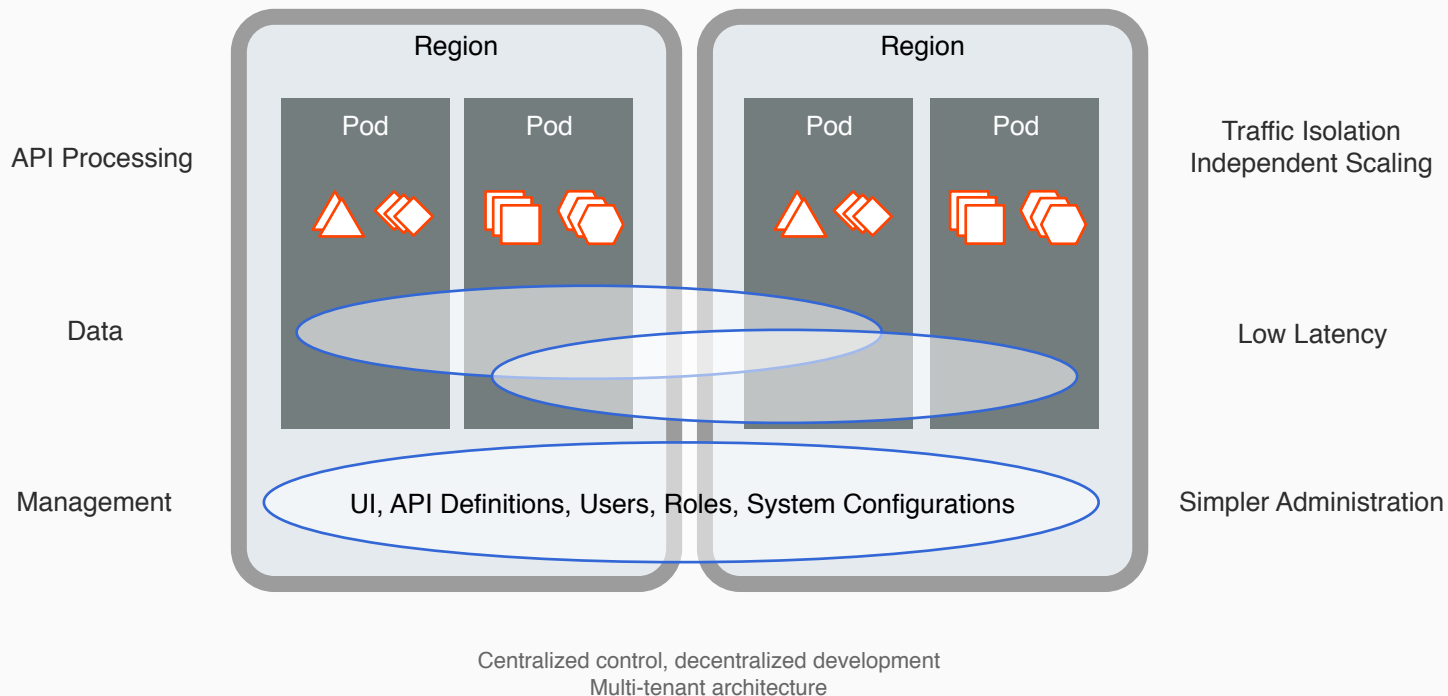


Shared infrastructure via environments
Zero downtime deployment

Edge



Operational Excellence



Support web-scale mission-critical operations



Edge Black Friday Holiday Traffic

Edge Cloud Stats 2014

API requests handled:

Servers managed:

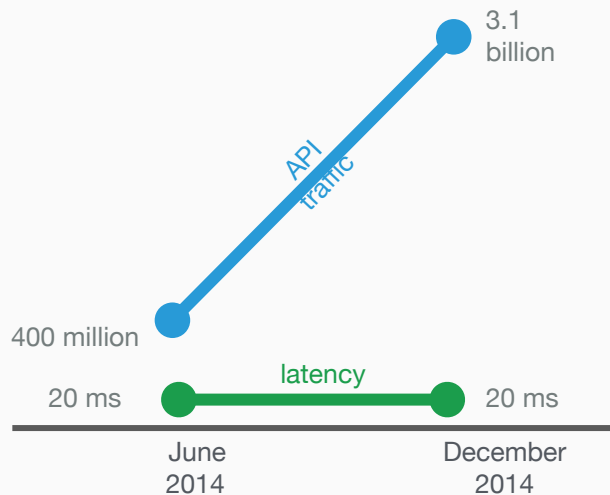
3000+

Billions of API calls, including large spikes, processed regularly without disruption

Case Study: Scale with High Performance

Leading Media Company – Apigee Hosted

8x growth within 6 months
No impact to latency



100+ APIs

700+ Apps

1,200+ average TPS

9+ TB analytics data



Deploy in the public or private cloud

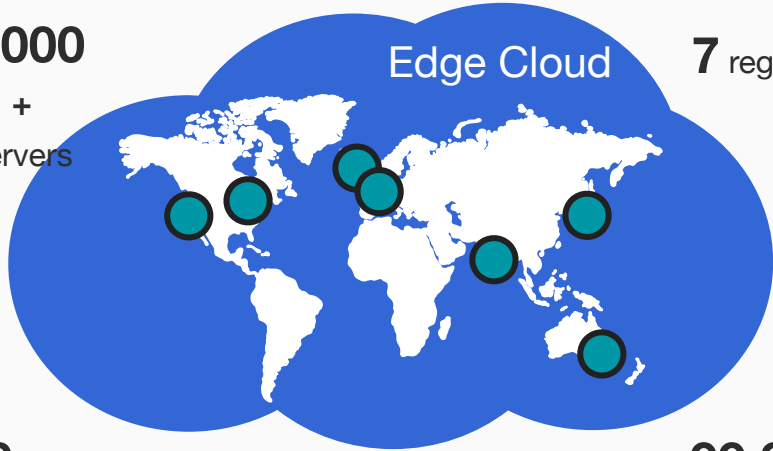
19 availability zones

3,000

+
servers

Edge Cloud

7 regions



~20 ms

average latency

~1/2 billion
transactions /
day

>99.9%

API availability

Private Cloud
leading Telco

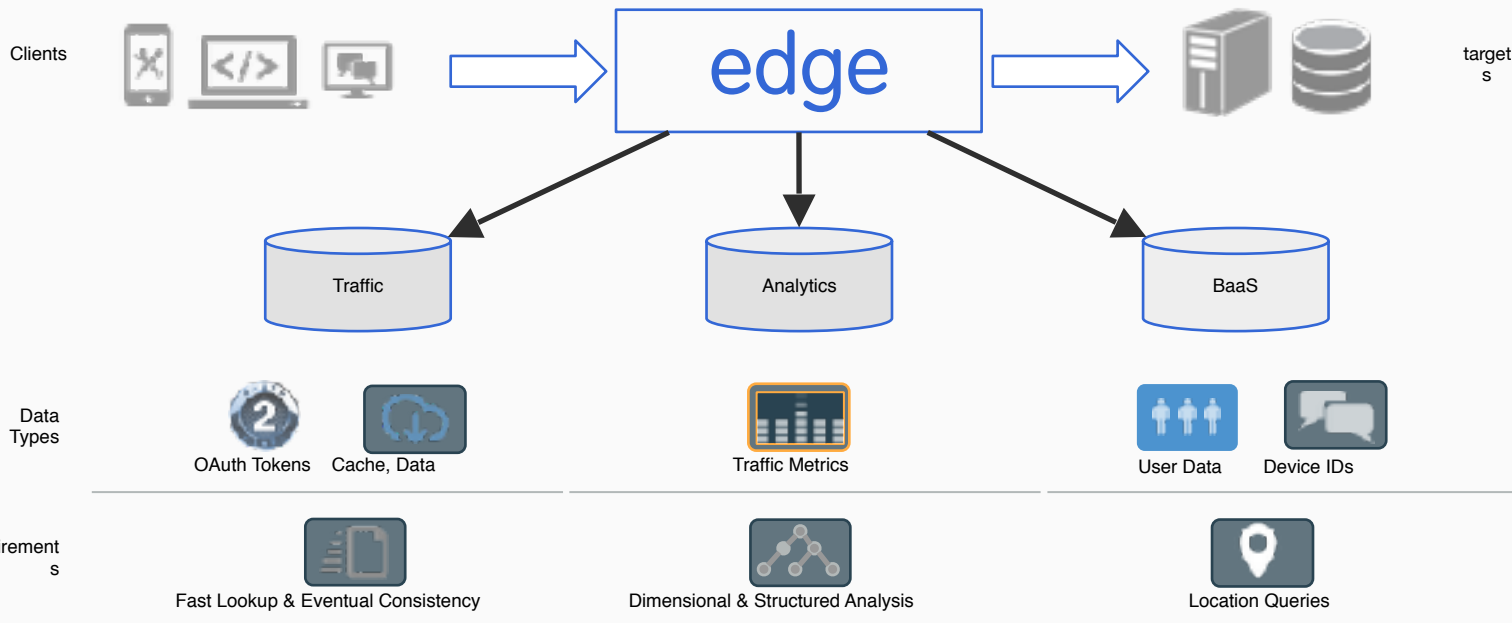
1+ Billion
calls / month



Multi-Datcenter Deployment

Private Cloud = Public Cloud

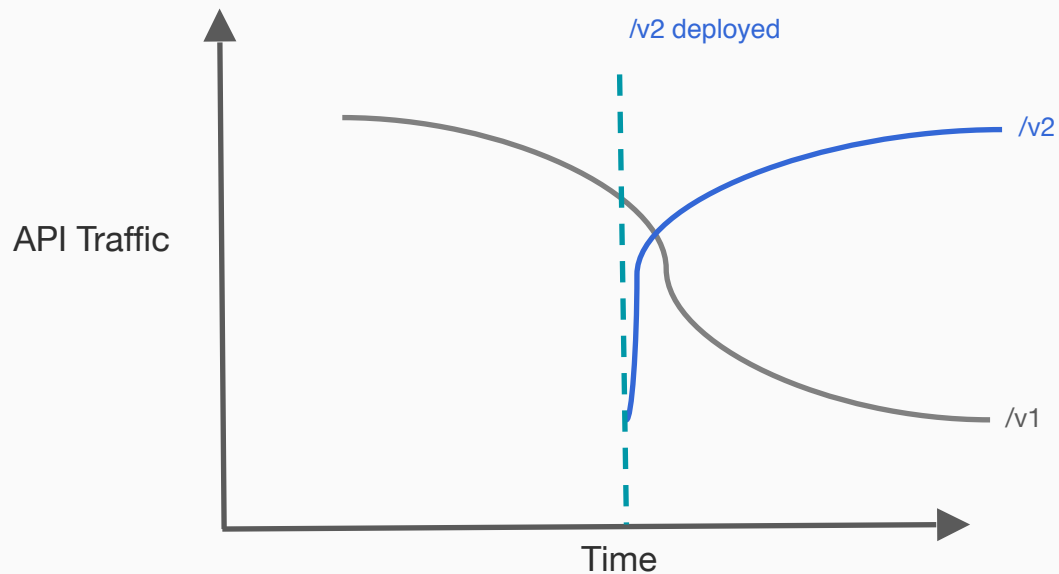
High performance. Always.



Scale with state and without compromising latency



Zero downtime deployment



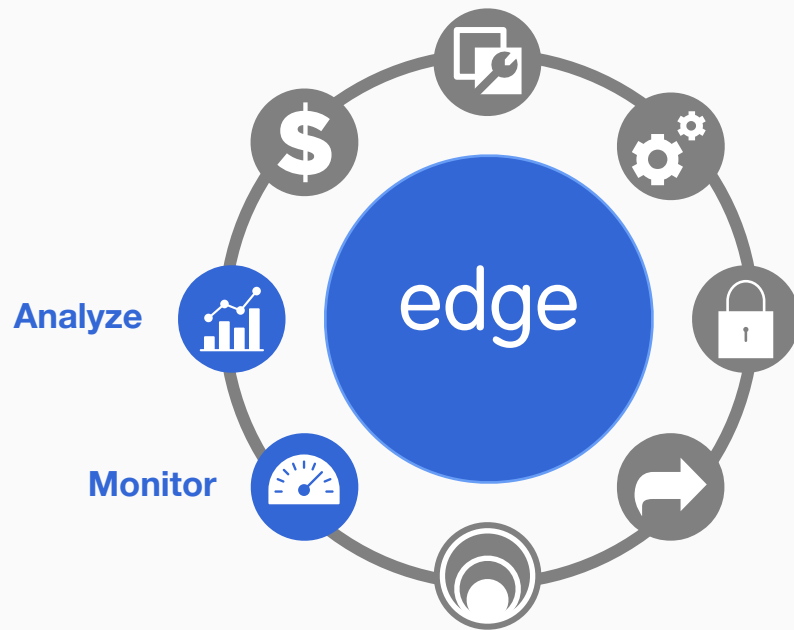
Deploy new versions without disrupting in-flight API traffic

Case Study: High Volatility

- Leading Internet Travel Company - Edge Private Cloud
 - 1 to 2 Billion + API calls / day
 - 10,000 + TPS spikes
 - Varying Payload Sizes from 250KB up to 12MB
 - Latency of < 10 milliseconds within Edge



Edge



Gain visibility into the entire Digital Value Chain

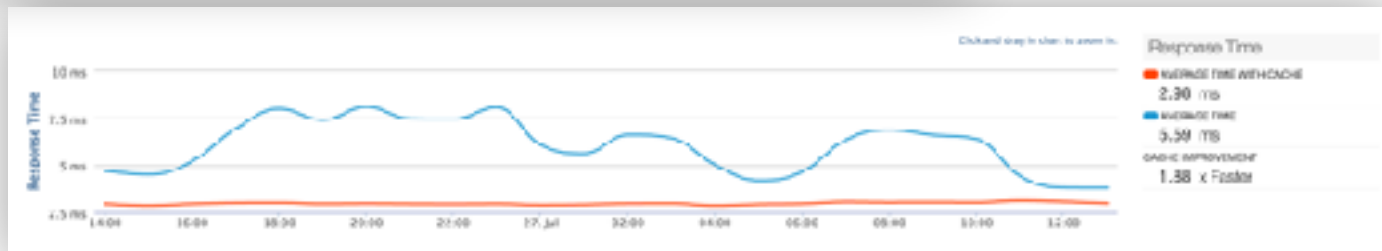


Relevant, Actionable and Extensible
Dashboards, Tools & Custom Reports



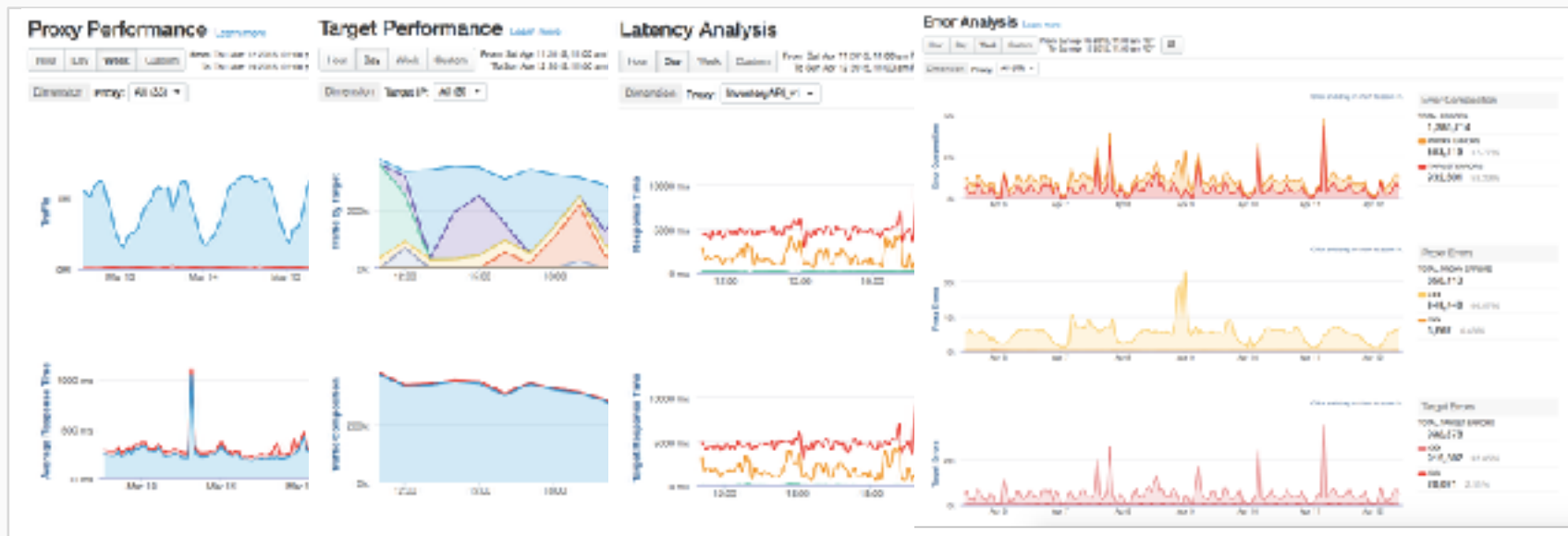
Complete visibility from app to the backend
Automatically ingest and analyze all data about your applications and operations

Improve API response times



In-memory, persistent response, and distributed, key / value map cache

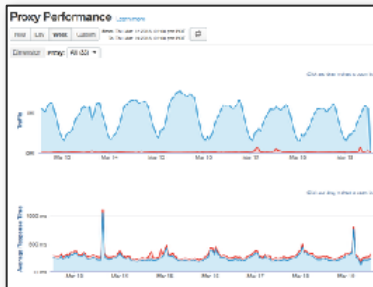
Gain complete visibility into API performance and usage



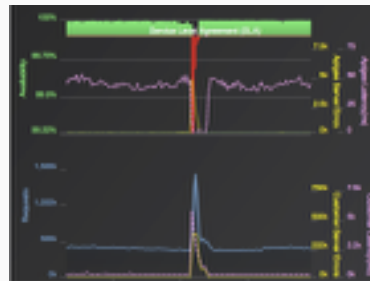
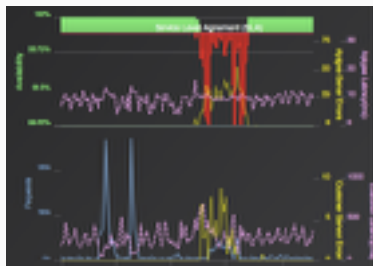
Many ready to use out of the box charts and reports

Analyze and improve APIs

What you
see

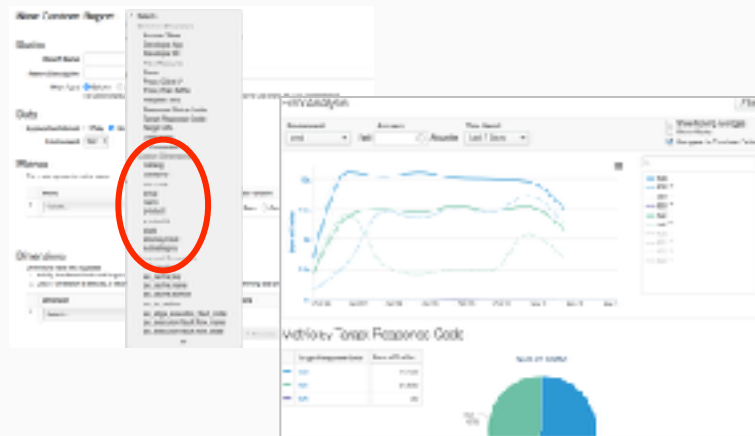
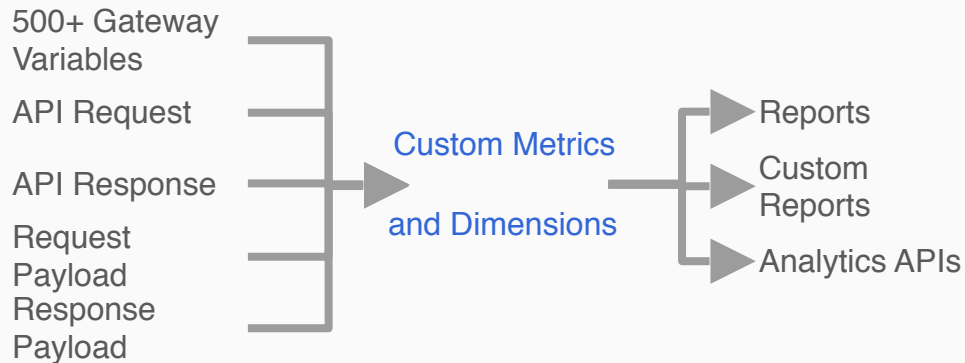


What we see



Automatically and continuously collect all data about API traffic out of the box

Build your own reports



Self-service custom reports: Define custom metrics, dimensions, queries, reports, and dashboards using virtually any attribute that defines traffic

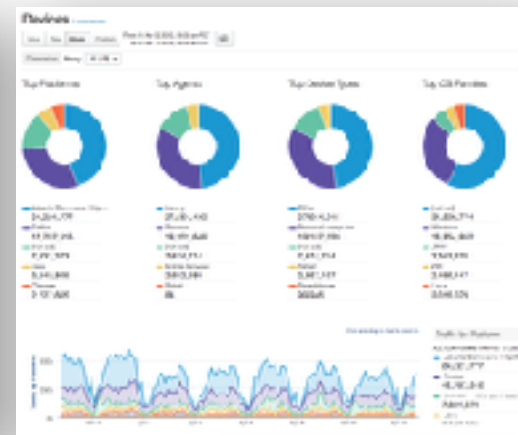
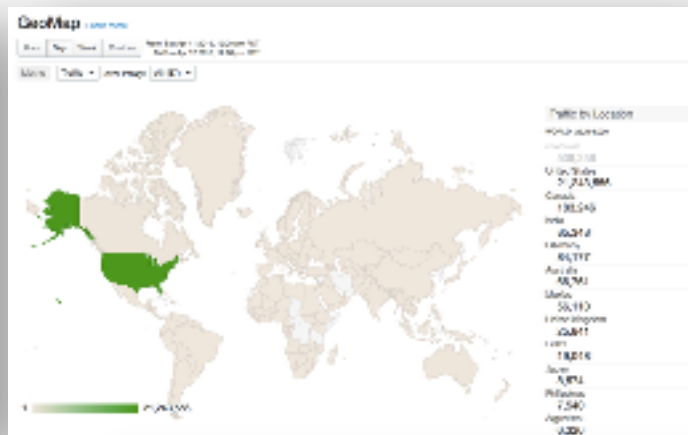
Easily integrate API analytics with enterprise tools

- Over 120 query APIs
- Metric
- Dimension
- Aggregation type
- Interval
- Ordering
- Time duration
- Filter



Create custom queries against raw traffic data using 120+ Analytics APIs

Measure and grow the API program

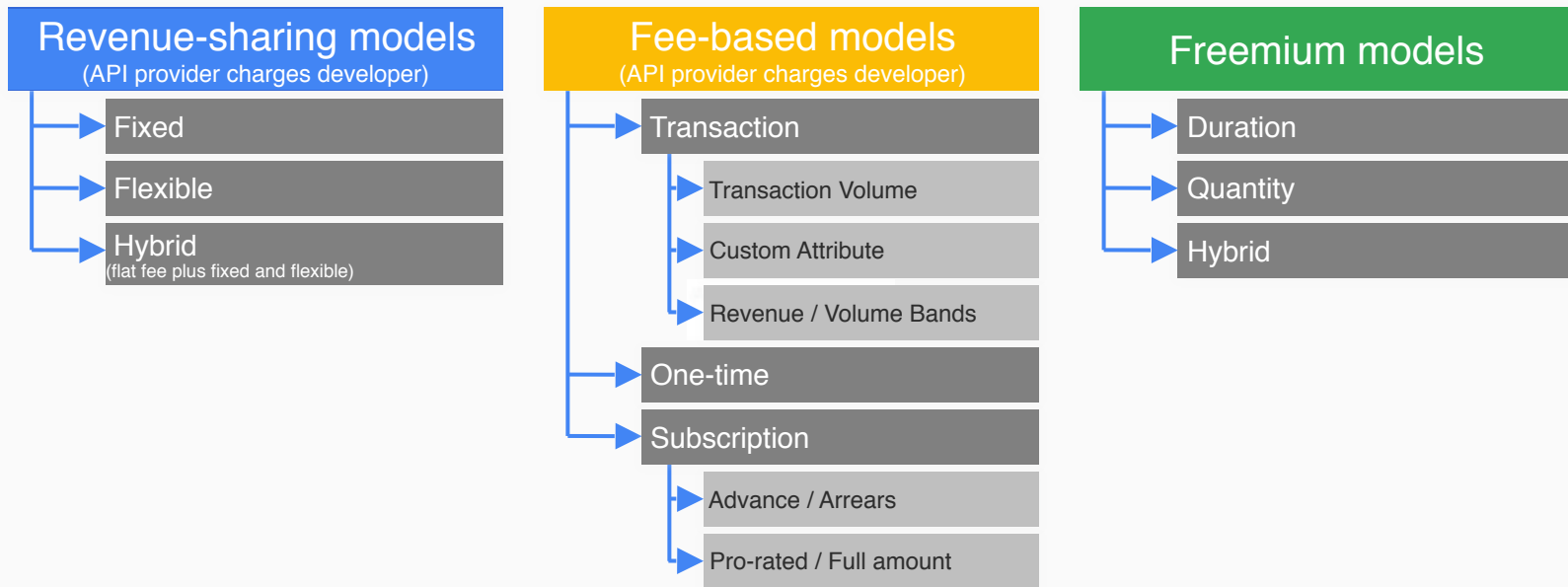


Edge



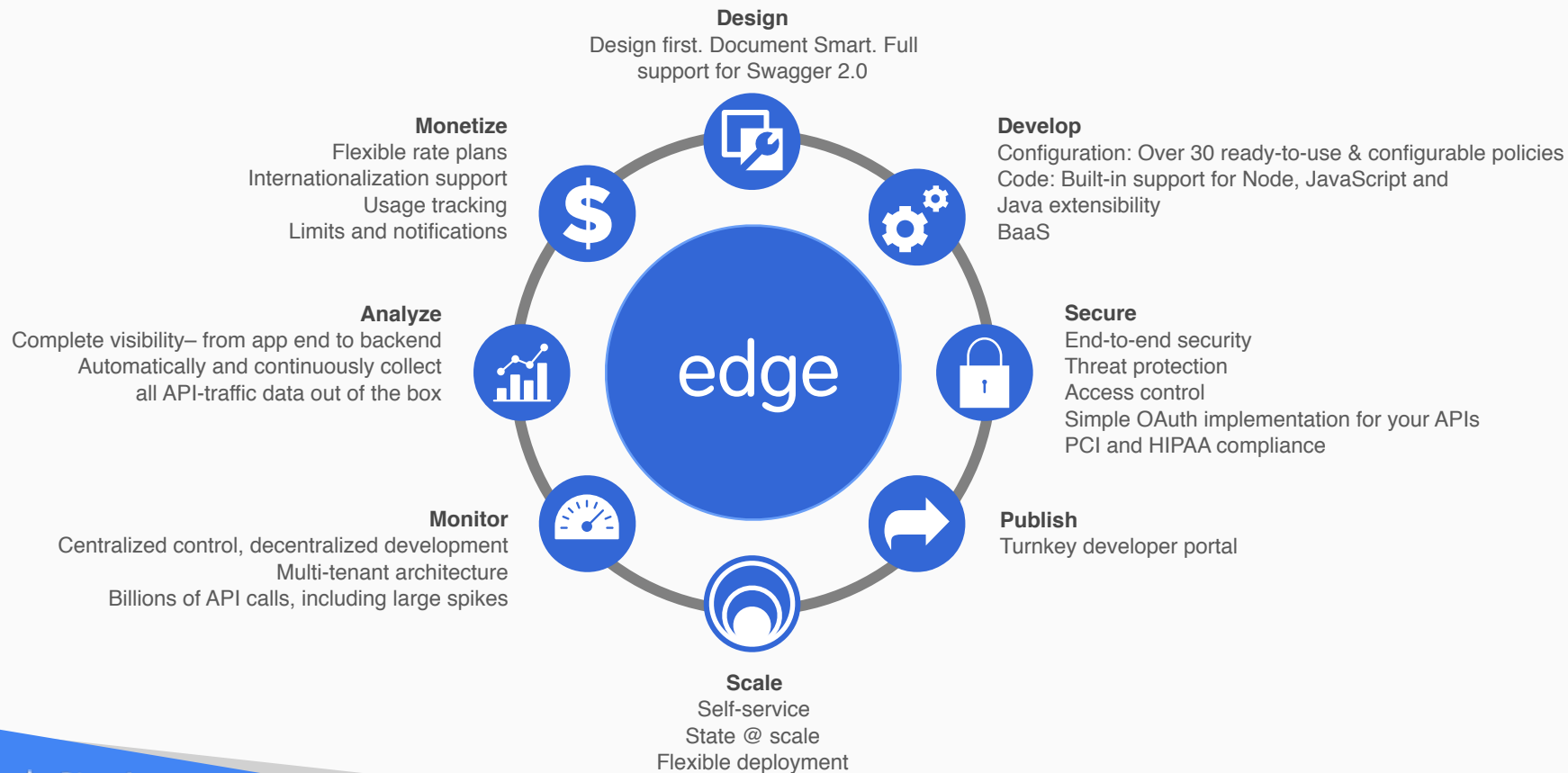


Monetize APIs: Any partner, any business model



Flexible rate plans, internationalization support, usage tracking, limits and notifications

Edge



THANK YOU