



API Management

REST API Design, Development & Management

<http://www.acloudfan.com>

raj@acloudfan.com

Part of a course that covers the A to Z of
RESTful API. More information.

Updated: Dec 27th, 2016

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API Management Scope

raj@acloudfan.com

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Lifecycle

Security

Traffic

Productize

Productivity

Analytics

Monetization

akana

apigee

3SCALE

MuleSoft

IBM API Connect

MASHERY

WSO2



API Management : Lifecycle & Productivity

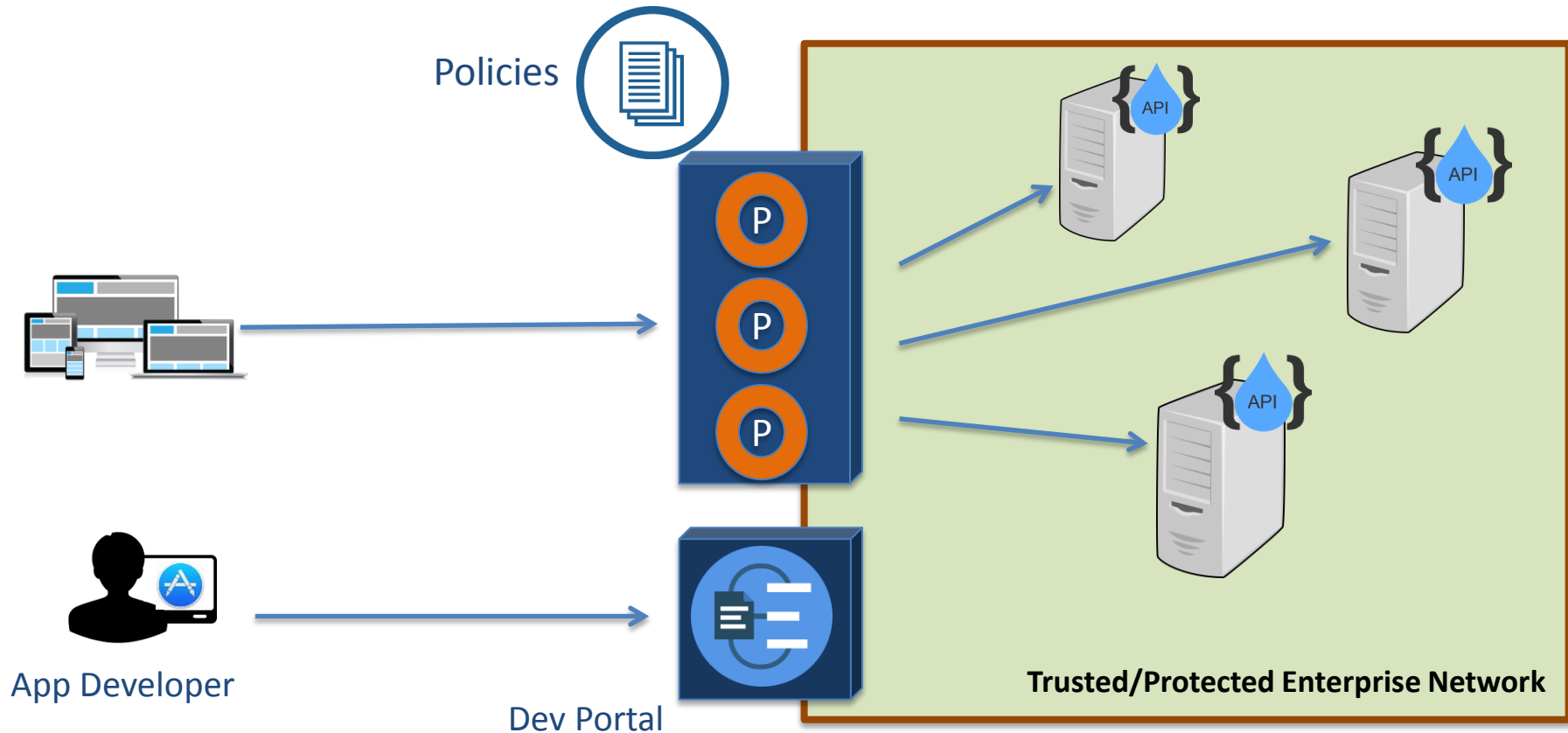


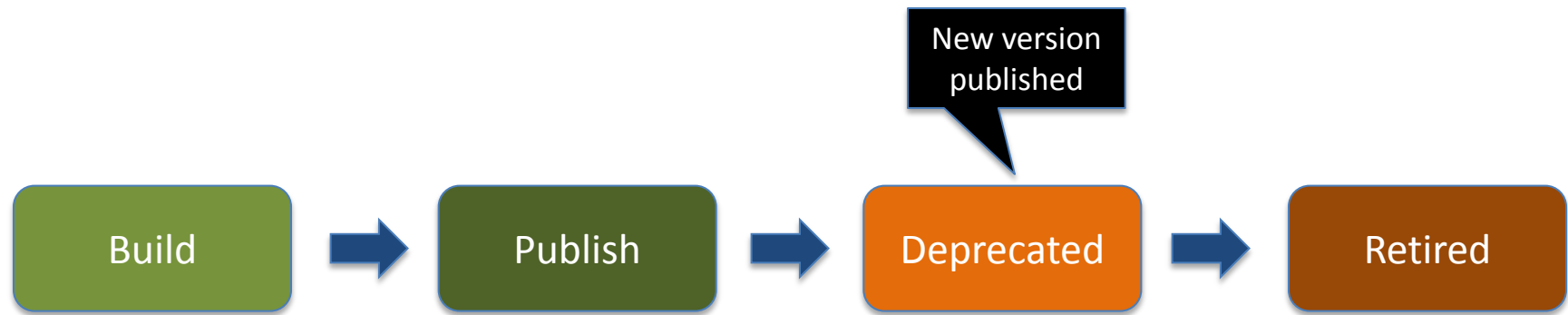
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- Establish processes, practices & roles
- Publish roadmap in advance
- Setup App developer communication
- Leverage and create tools



App Developer

- API Documentation
- Self serve provisioning
- Support



Developer Portal



API Developer

- Development guidelines
- Frameworks
- Best practices



API Management : Security



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- Leverage API management platforms for security



Authentication



Authorization



Functional attacks

OAuth server

Key/Secret management

Protection from known threats

Future threats



- Educate the API developers
- Provide development guidelines on security
- Stay up to date on security threats
- Have a well defined security policy
- Develop a contingency plan
- Work with the other stakeholders to protect infrastructure



API Management : Traffic



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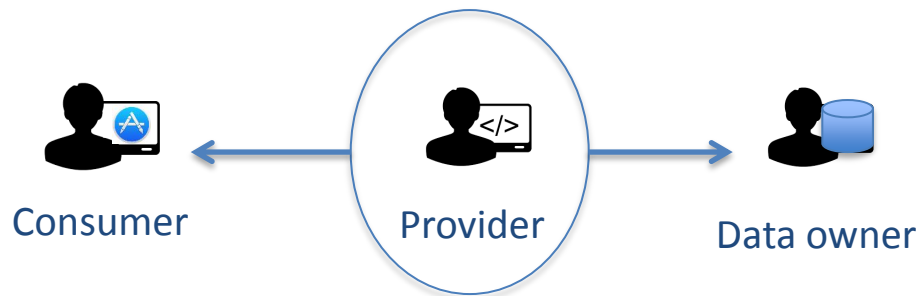
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Traffic Management?

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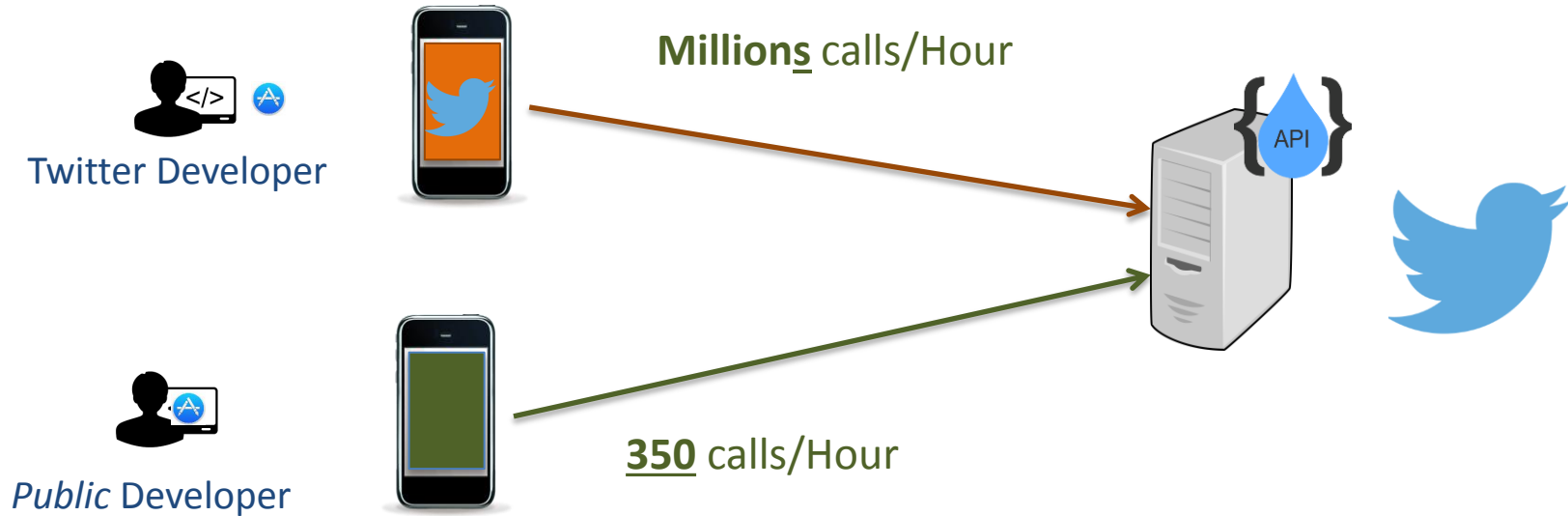
1. Response time consistency

2. Service Level Agreement (SLA)

3. Protecting the backend

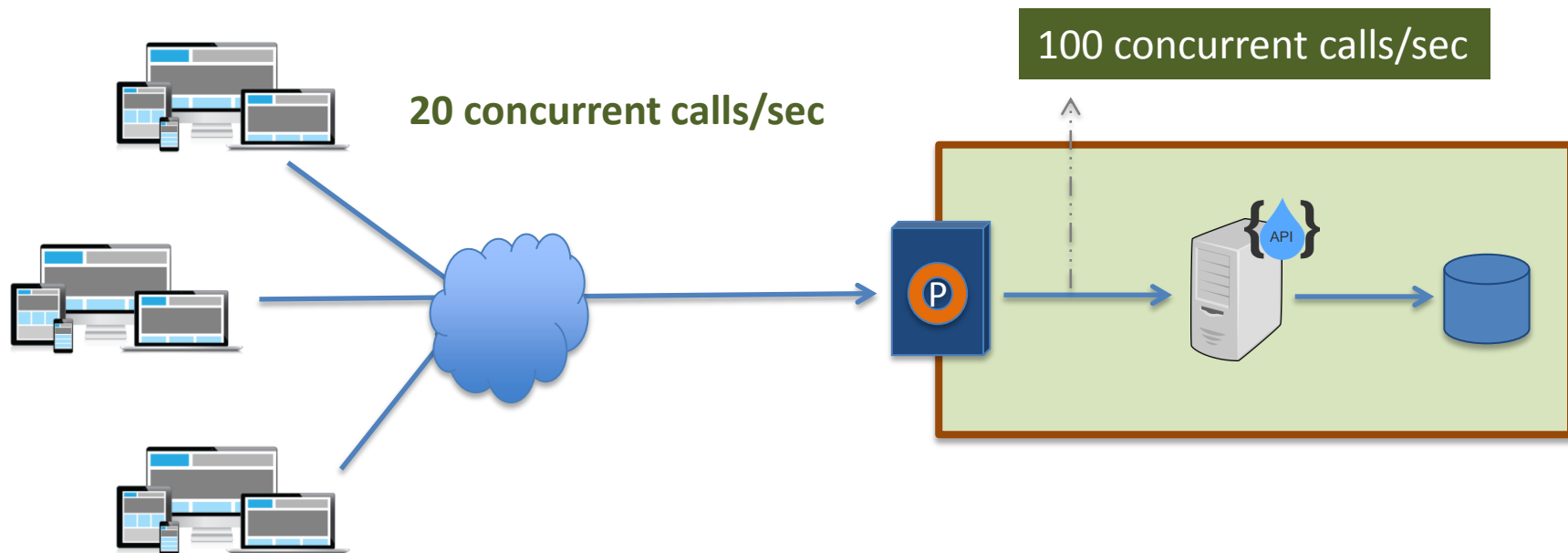


- Defines Maximum # of calls per unit time



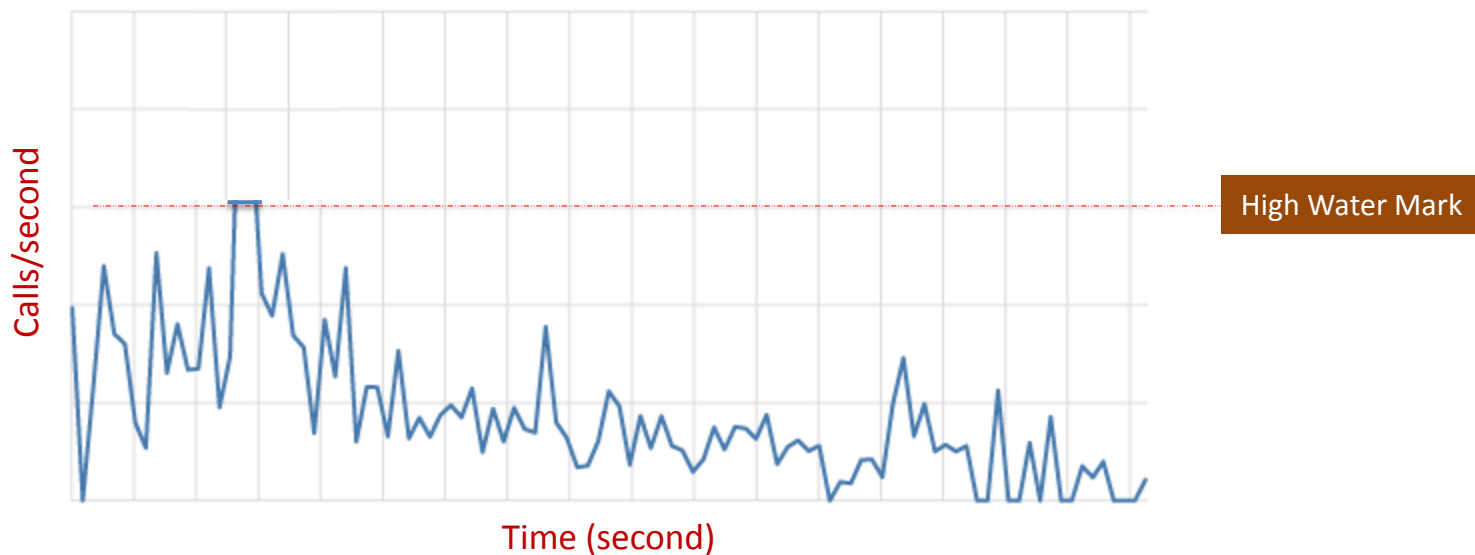


- Limits number of **concurrent** connections to API





- Prevents calls beyond high water mark from reaching the backend





Performance

Response time

Throughput

Peaks/Valleys



Errors

API Errors

Backend errors



Calls / time

Response



Usage



App Developer



Region



Device types

Transactions

- Specific to the implementation
- Logic built in the *proxy*



Origin of maximum sales?



API Management : Productize & Monetize

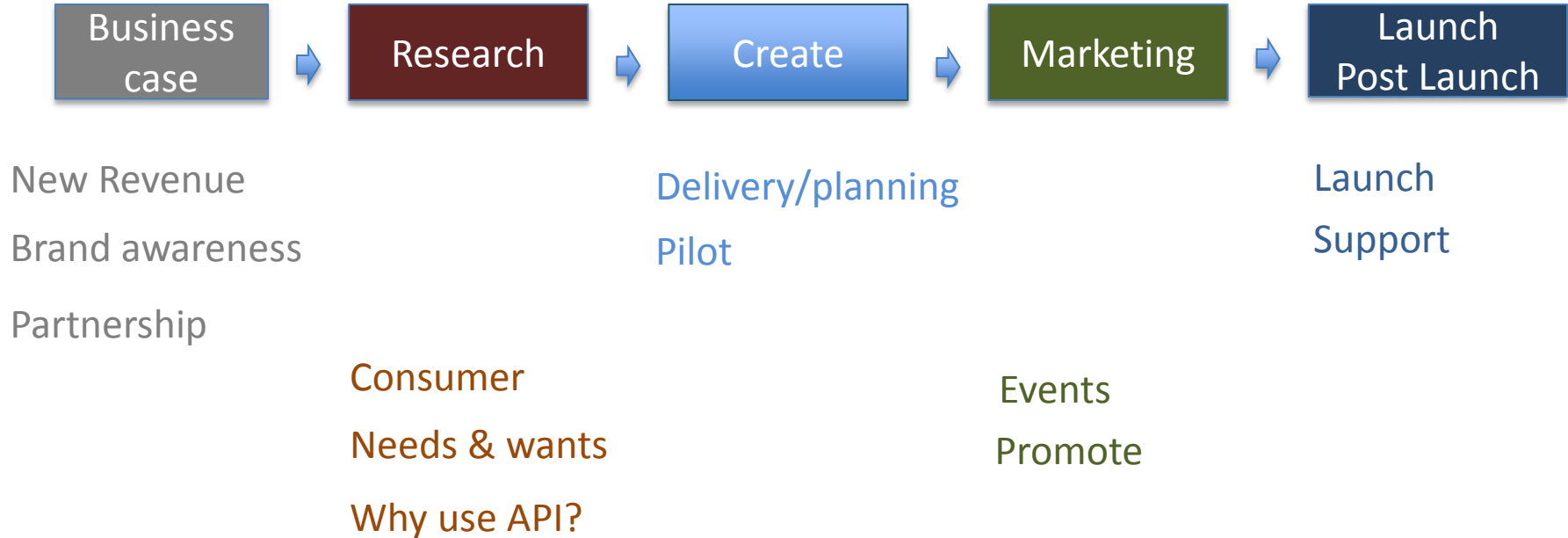


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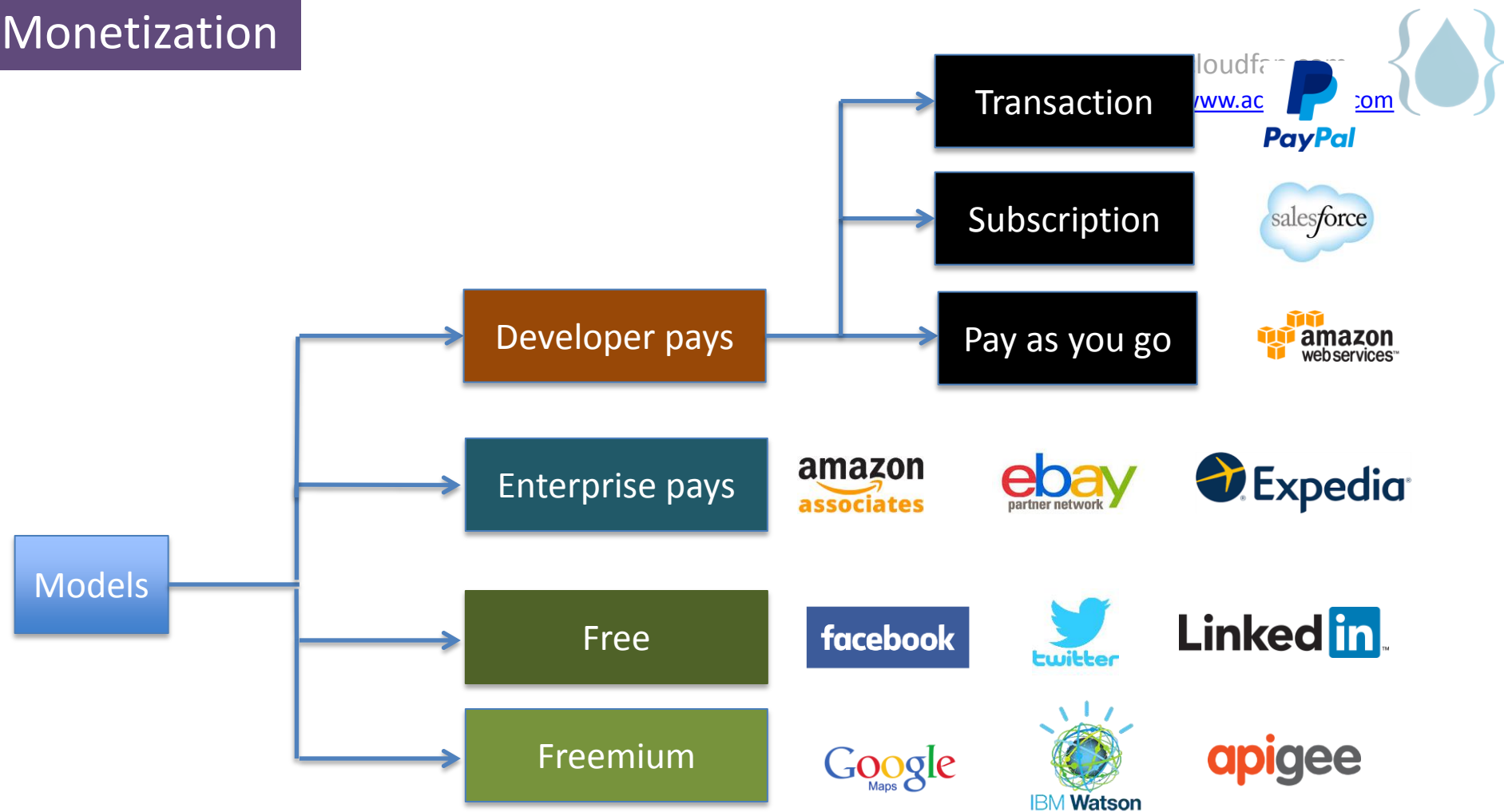
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You need to treat your API like a product

Monetization





Tiered Product Definitions

Usage metering

Subscription management

Reporting

Partner management