KONG & OpenResty

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http://getkong.org

KONG
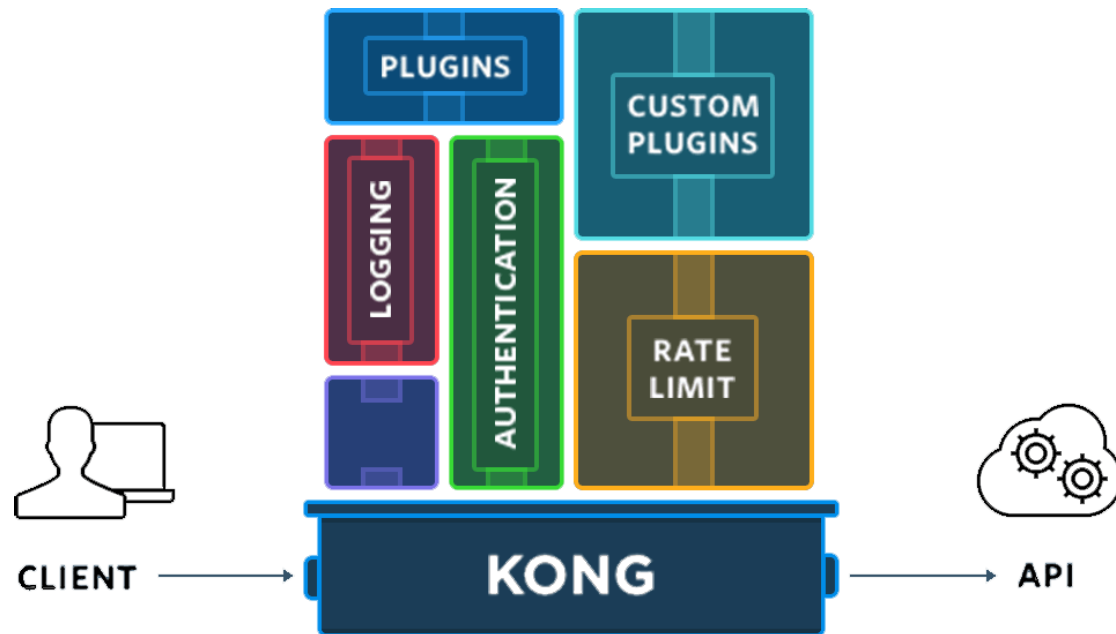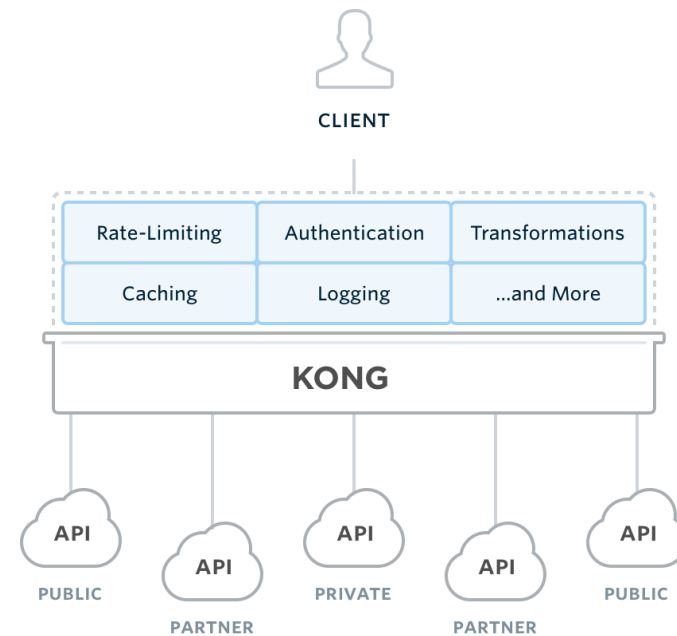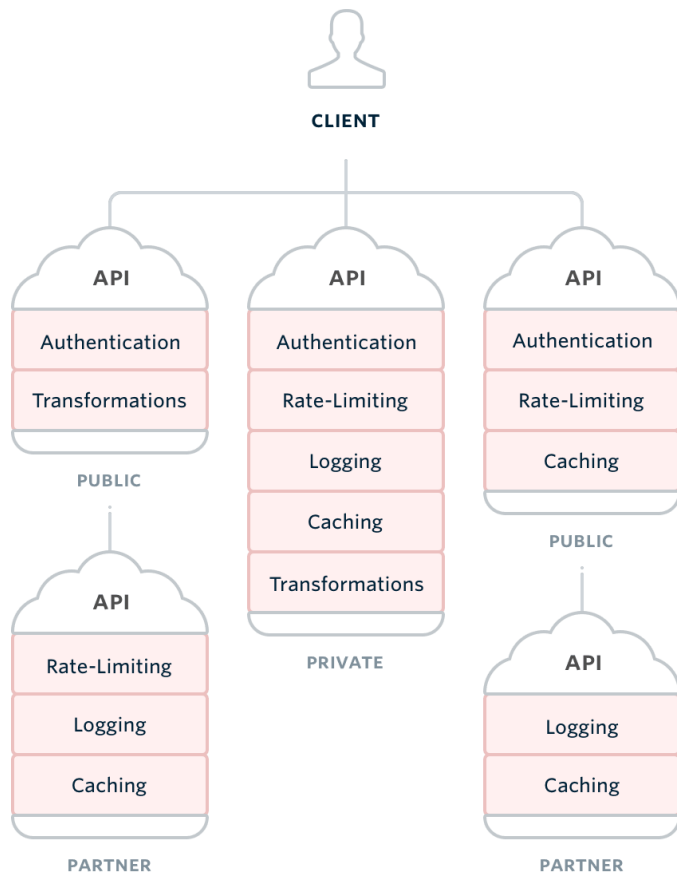
Kong is an open-source management layer for APIs
to secure, manage and extend APIs and Microservices.

Centralizes common functionality in one place inside of your infrastructure

CLIENT

API	API	API
Authentication	Authentication	Authentication
Transformations	Rate-Limiting	Rate-Limiting
	Logging	Caching
	Caching	
PUBLIC	Transformations	**PUBLIC**

API

Rate-Limiting
Logging
Caching

PARTNER

PRIVATE

API

Logging
Caching

PARTNER

CLIENT

Rate-Limiting	Authentication	Transformations
Caching	Logging	...and More

KONG

| API	API	API	API	API
PUBLIC	PARTNER	PRIVATE	PARTNER	PUBLIC

Kong Plugins

Authentication

Protect your services with an authentication layer:

Basic Authentication

Add Basic Authentication to your APIs

Key Authentication

Add a key authentication to your APIs

OAuth 2.0 Authentication

Add an OAuth 2.0 authentication to your APIs

HMAC Authentication

Add HMAC Authentication to your APIs

JWT

Verify and authenticate JSON Web Tokens

Security

Protect your services with additional security layers:

ACL

Control which consumers can access APIs

CORS

Allow developers to make requests from the browser

SSL

Add a SSL certificate for an underlying service

IP Restriction

Whitelist or blacklist IPs that can make requests

Traffic Control

Manage, throttle and restrict inbound and outbound API traffic:

Rate Limiting

Rate-limit how many HTTP requests a developer can make

Response Rate Limiting

Rate-Limiting based on a custom response header value

Request Size Limiting

Block requests with bodies greater than a specific size

Analytics & Monitoring

Visualize, inspect and monitor APIs and microservices traffic:

Galileo

Datadog

Runscope

API Gateway Requirements

Mission Critical	High Performance	Scalable
Extendable	Portable	Easy to use

Why OpenResty?

NGINX

LuaJIT

Community

API Consumers　　　Kong Admin

Proxy　　Kong CLI　　Kong API　　Lapis (https://github.com/leafo/lapis)

Plugins
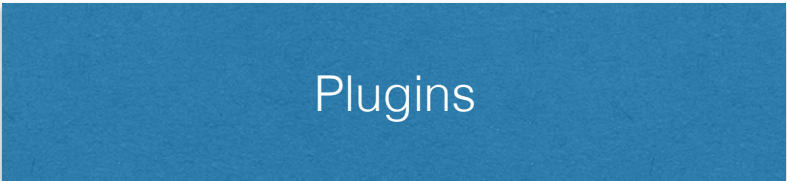
OpenResty API　　access_by_lua
　　　　　　　　　header_filter_by_lua
　　　　　　　　　body_filter_by_lua
　　　　　　　　　log_by_lua
　　　　　　　　　….

NGINX

```
ngx.say("Thank You!")
ngx.exit(200)
```

KONG

http://getkong.org

https://github.com/Mashape/kong

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