

網站開發你該注意的十件事

Sidraw. 2021 / 05 / 27

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KKBOX

Feature Development & Operations Engineer

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Engineer

- 網站運作原理
- 開發事前規劃
- 開發注意重點

從你打開瀏覽器到看到網站，
發生了什麼事情？

首先了解網站的要素

前端

URL

後端

協定

請求

瀏覽器

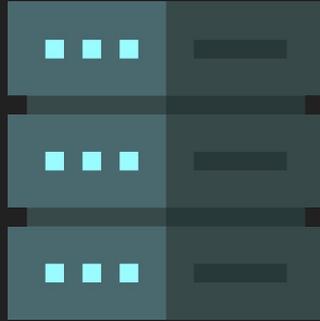
回應

DNS

網路環境

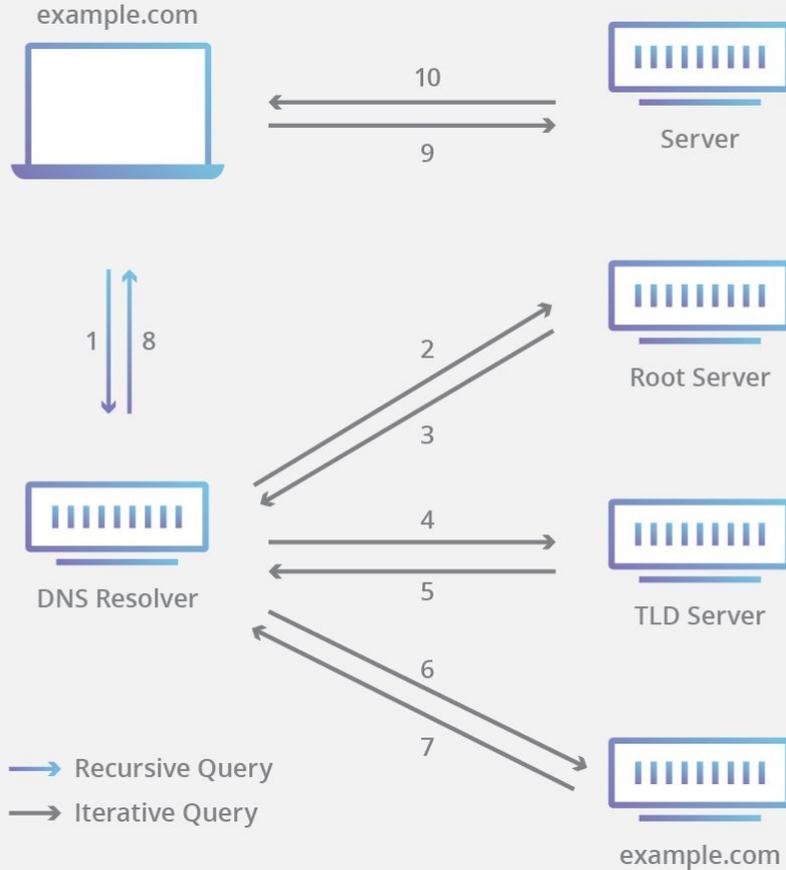
伺服器

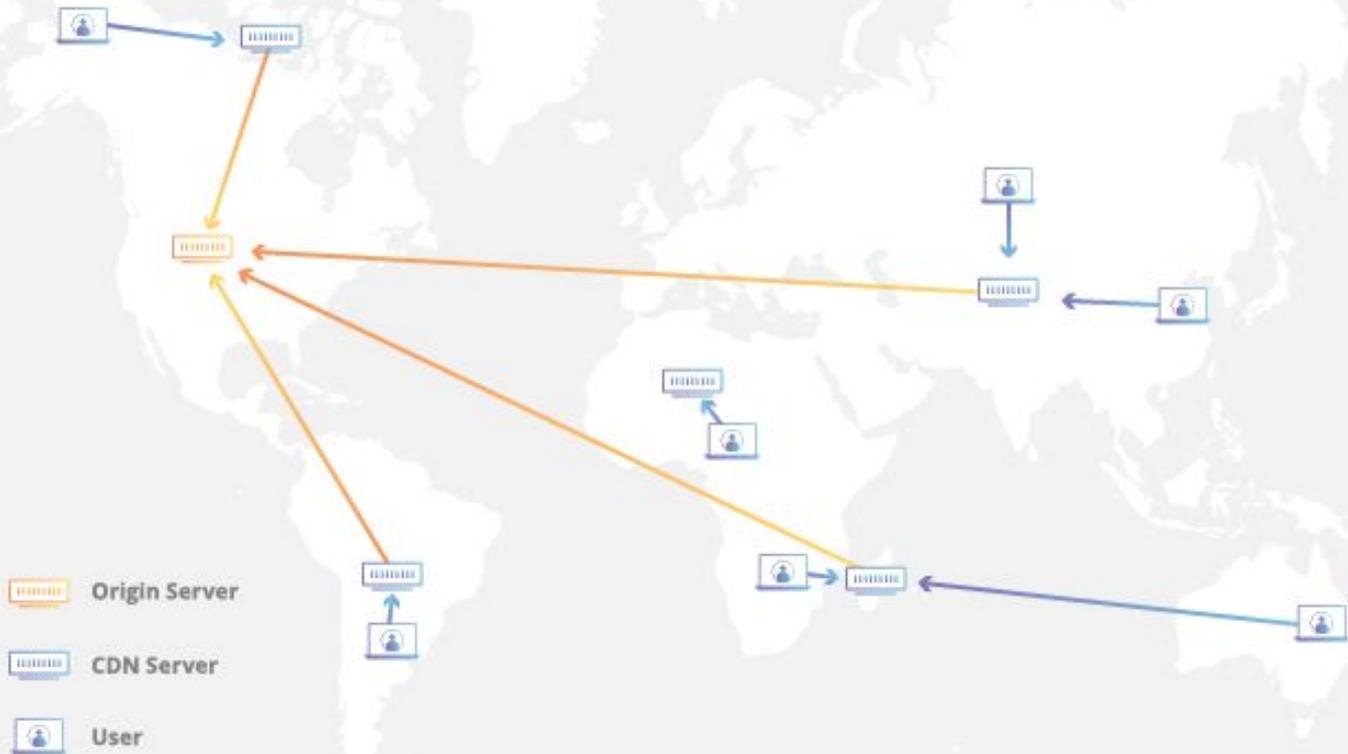
資安



URL 如何找到主機位址 ？

Complete DNS Lookup and Webpage Query





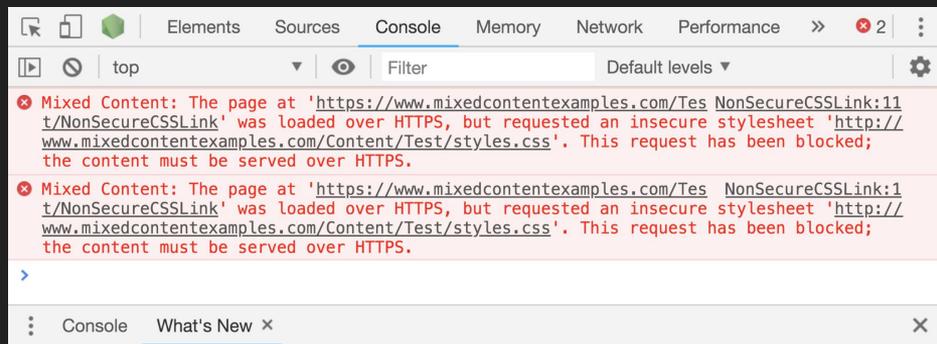
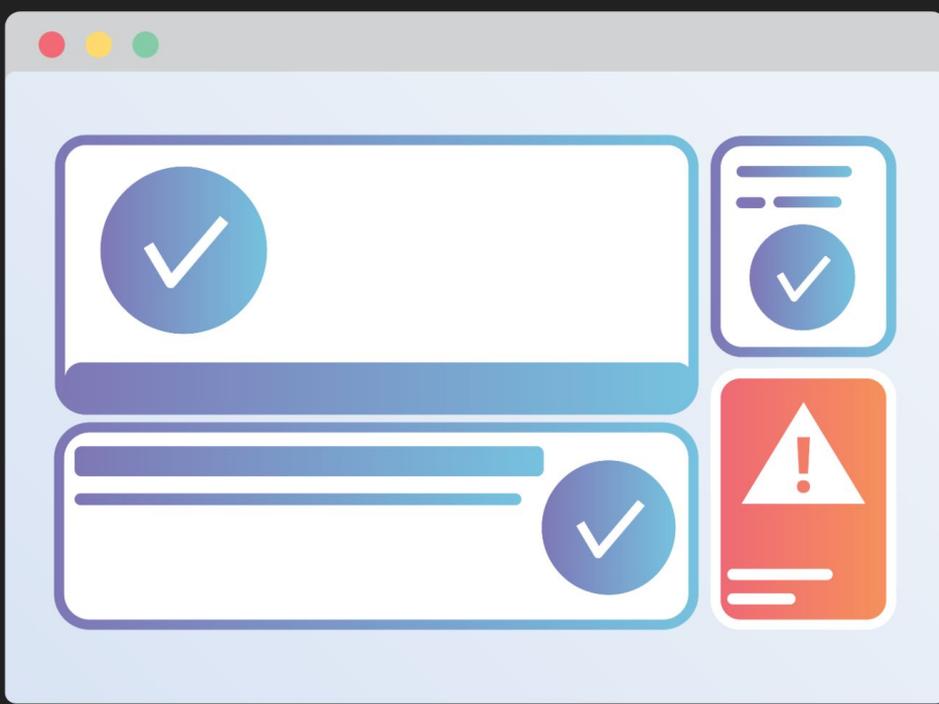
URL

Uniform Resource Locator



- Canonical
- Internal link
- 301 redirect
- Sitemap







2000 ms	4000 ms	6000 ms	8000 ms	10000 ms	12000 ms	14000 ms	16000 ms	...
Name								
www.hexschool.com								
all.css								
all.css?1621733981870								
?format=jsonp&callb...								
version_2019%2Fic-li								
tutorials%2Ftraining-								
version_2019%2Flogi								
version_2019%2Flogi								
version_2019%2Fhex								
version_2019%2Fhex								
version_2019%2Fhex								
css?family=Open+Sa								
icon?family=Material								
version_2019%2Fhex								
version_2019%2Fhex								
version_2019%2Fhex								
version_2019%2Fhex								
version_2019%2Fhex								
version_2019%2Fim								
tutorials%2Fui-traini								
tutorials%2Fjs-traini								
tutorials%2Fjs-traini								
web%2Fqa%2Fchara								
web%2Fqa%2Fchara								
web%2Fqa%2Fchara								
version_2019%2F202								
42 requests 540 kB tran								

× Headers Preview Response Initiator Timing Cookies

▼ General

Request URL: <https://www.hexschool.com/>

Request Method: GET

Status Code: 304

Remote Address: 172.67.174.179:443

Referrer Policy: strict-origin-when-cross-origin

▶ Response Headers (25)

▼ Request Headers

:authority: www.hexschool.com

:method: GET

:path: /

:scheme: https

accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/si

gned-exchange;v=b3;q=0.9

accept-encoding: gzip, deflate, br

accept-language: zh-TW,zh;q=0.9,en-US;q=0.8,en;q=0.7

cache-control: max-age=0

cookie: _afid=8335ddd3-0209-45ad-803b-6f0373ea438f; aid=8335d

dd3-0209-45ad-803b-6f0373ea438f; _ga=GA1.2.306736089.161607

9519; ajs_user_id=null; ajs_group_id=null; ajs_anonymous_id

=%225fbc76fc-44c7-4a8c-92dc-4a99eb3807d8%22; _fbp=fb.1.1616

079519177.1646826490; testClass=1; mp_75759612e011b856d03c2

a78e8219094_mixpanel=%7B%22distinct_id%22%3A%20%22179802413

856f1-00c2fb7c17747d-3f740859-1fa400-179802413867f5%22%2C%2

HTTP Method

GET

POST

“CORS”

OPTIONS

PATCH

“Preflight Request”

DELETE

PATCH

OPTIONS

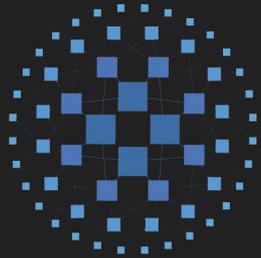
DELETE

後端領域



APACHE

HTTP SERVER PROTECT



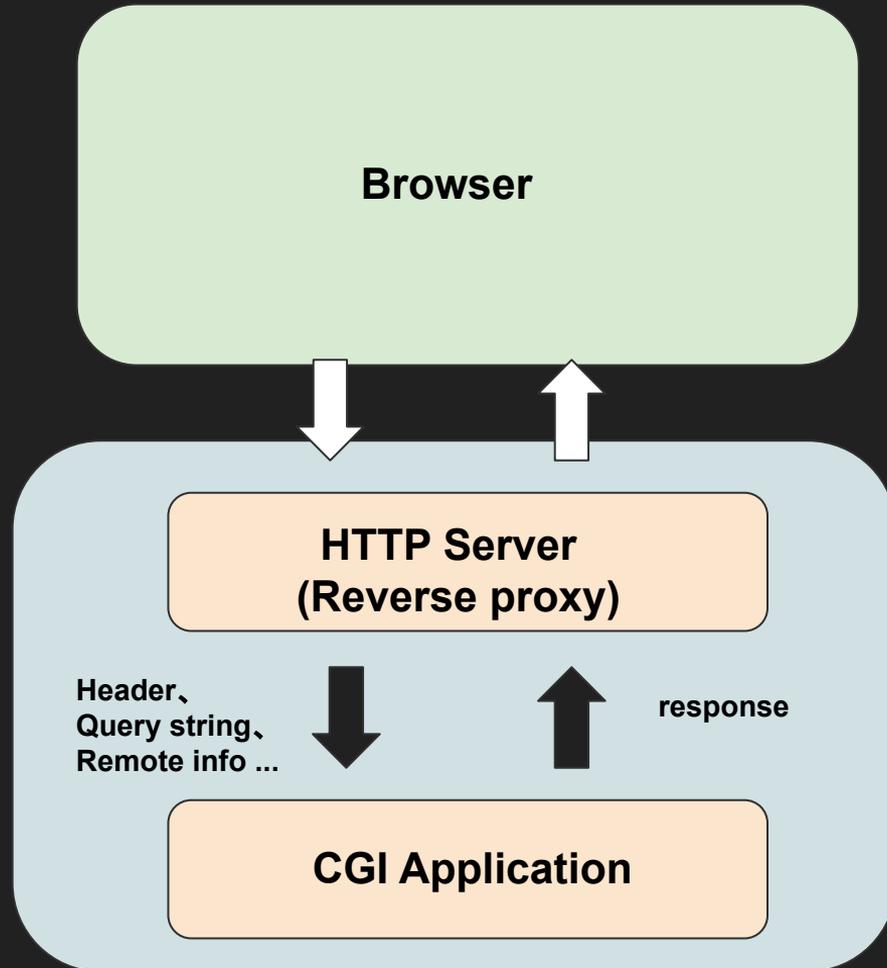
HAPROXY



Caddy²



「無量空処」



- 注意 靜態檔案流量
- 注意 Header 夾帶的訊息
- 注意 ip 暴露
- 注意 301、302 設定
- 注意 Cloudflare 會增加延遲

開發事前規劃

釐清 Key point



根據情境選擇 stack

SSR

內容網站

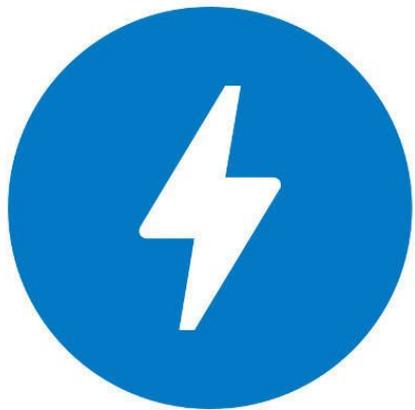
- 減低 client side 負擔
- SEO 友好
- 使用者體驗差
- 前端管理不易

CSR

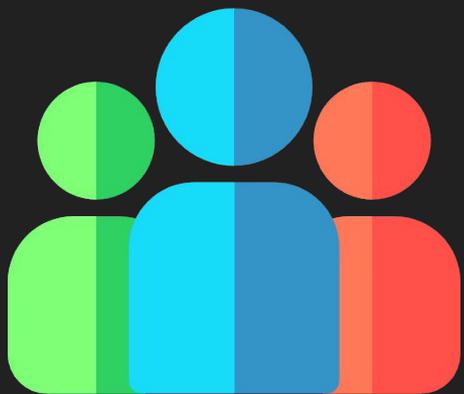
後台操作系統

- SPA
- Quality
- Client side 負擔大
- SEO 不佳

Isomorphic Javascript



AMP



開發人力

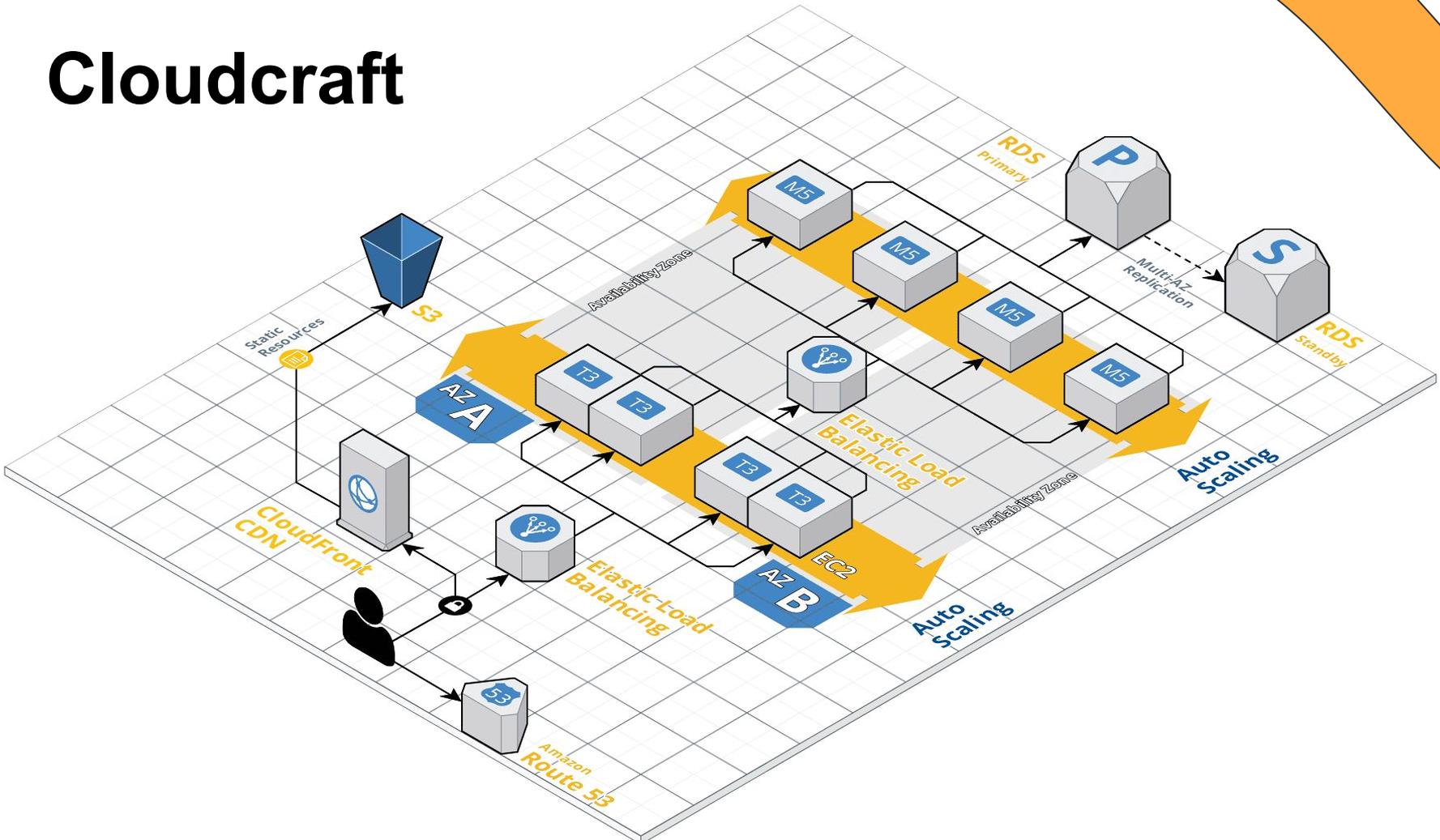


網站性質



TA

Cloudcraft



- **注意** 規劃架構時，是否了解目標
- **注意** 不要為了追求潮流而去選擇 stack
- **注意** 隨時注意版本更新訊息

開發該注意的事

SOLID

Single Responsibility Principle

單一職責原則

A class should have only one reason to change.

開放封閉原則

Liskov Substitution Principle

里氏替換原則

Interface Segregation Principle

介面隔離原則

Dependency Inversion Principle

依賴反轉原則

SoC 關注點分離



- 分類特徵
- 封裝操作
- 組織行為

Bad smell

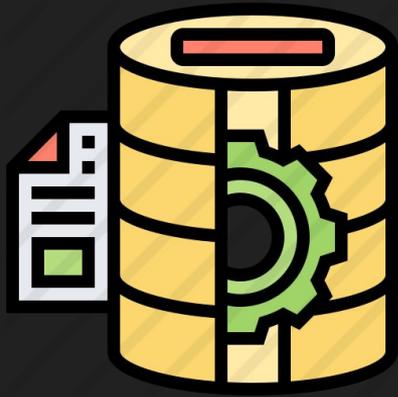
- Duplicate Code
- Long Class、Method、Parameters
- Mysterious Names 神秘命名
- Divergent Change 發散式修改
- Speculative Generality 夸夸其談未來性

- 
- Code Review
 - 內化心法
 - 選擇正確的工具
 - 寫測試
 - 多參考 Open Source



Anti Pattern

Request



N + 1 Query

Index

Region latency

- 注意 開發時先思考再動手
- 注意 壞味道的存在
- 注意 在開發階段就抓出效能問題
- 注意 防疫, 感謝同學今天的時間