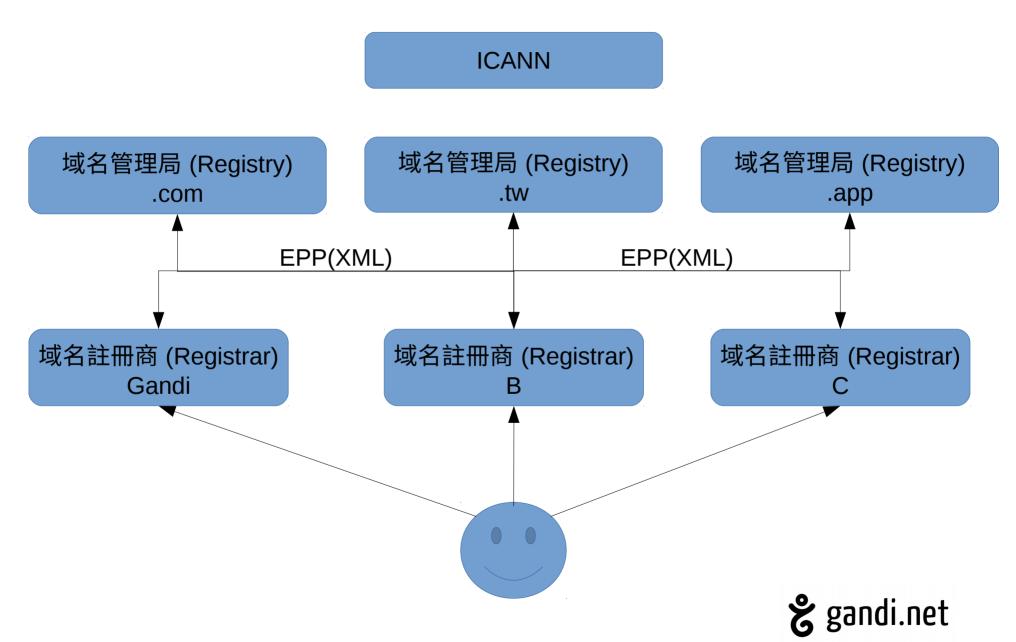
域名註冊好簡單,用 Python 輕 鬆成為域名註冊商

HaWay <haway@gandi.net>

Gandi.net x PyCon TW 2018



ICANN, Registry, Registrar

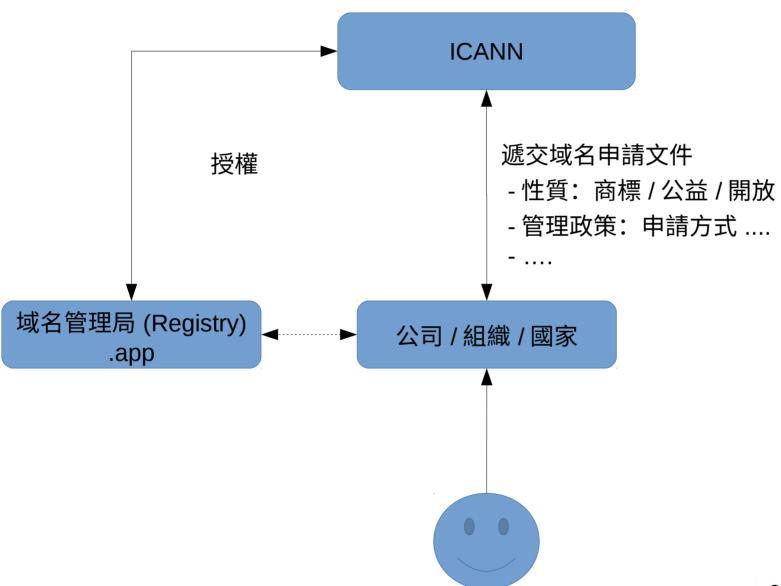


TLDs

- ccTLD
 - .tw / .jp / .kr / .cn / .sg
- gTLD
 - .com / .net / .info
- new gTLD
 - .tech / .app / .taipei / .nyc

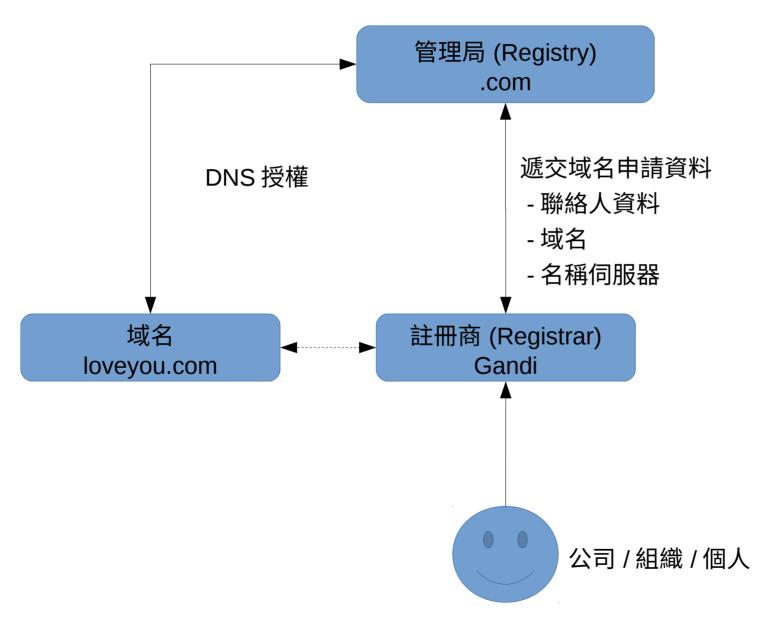


頂級域名怎麼來的?



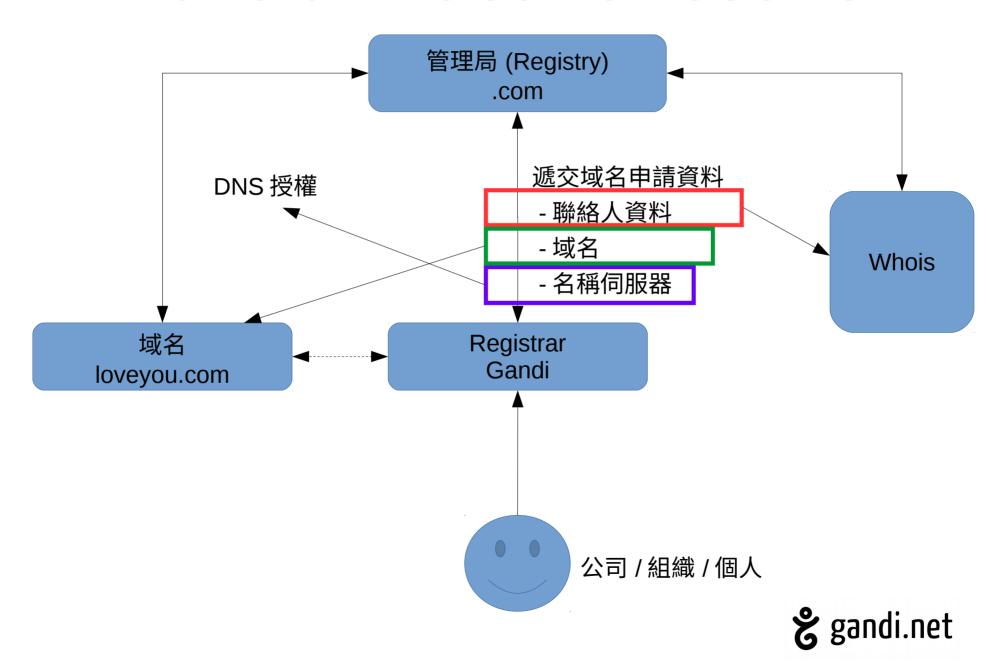


使用者申請域名





Domai / Whois / NameServer



三大基本資料

- 聯絡人資料:擁有者/管理聯絡人/技術聯絡 人/帳務聯絡人
- 域名: 名稱 + TLD (mydomain.net)
- 名稱伺服器: DNS 授權解析



使用者申請域名





為什麼不能註冊這個域名?

- 每個管理局會有不同的規範
 - 通常註冊不過的原因都是聯絡人資料
 - 不允許中文地址
 - 地址長度過長
 - 不允許中文姓名
 - 遞交驗證資料
 - 等等



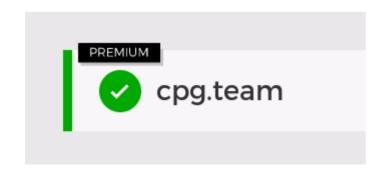
什麼是保留字?

- 漂亮又好記的名子
- 域名管理局在全面開放前已經鎖死
- 不賣



什麼是高價域名?

- 漂亮又好記的名子
- 價錢從 TWD\$1500~\$200,000↑/年
- 一次只能註冊一年
- 管理局訂價





成為域名註冊商



- 繳交年費
- 系統設計 (EPP/XML)
- 跟管理局對接



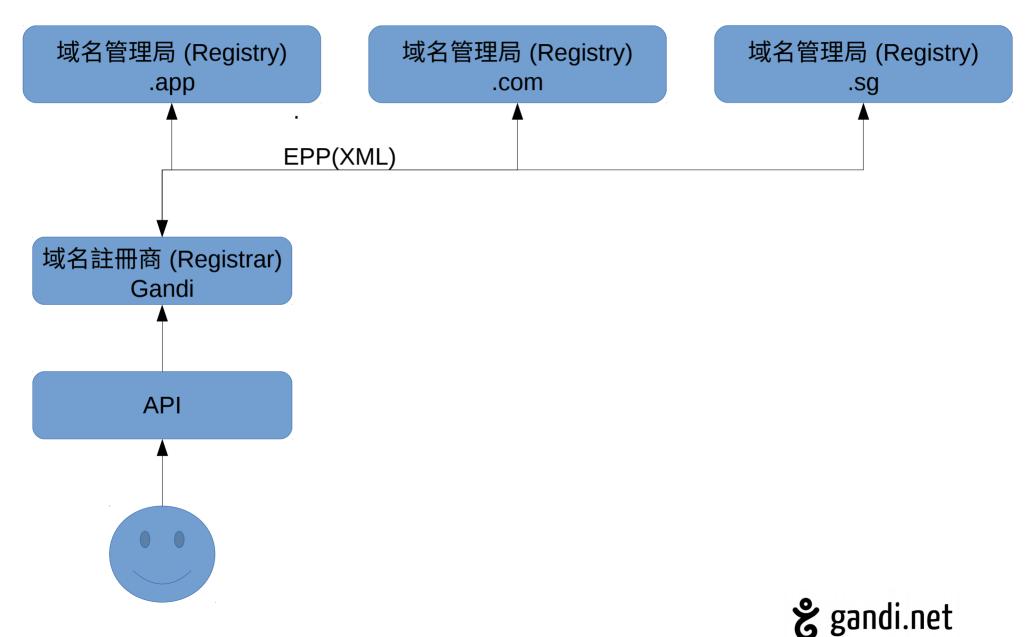


加入 Gandi 經銷商

- 只需要有 Gandi 帳戶
- 不需要任何費用
- 全功能管理
- 將域名與你的產品結合,提供給你的客戶更好的 加值服務



加入 Gandi 經銷商



Gandi v4 與 v5 的過渡期

- Gandi 於 2017 年推出 v5 平台,即現在所看到 的 https://www.gandi.net
 - 一般使用者
 - LiveDNS
- Gandi v4 平台 https://v4.gandi.net
 - API
 - 經銷商



Gandi v4 帳戶

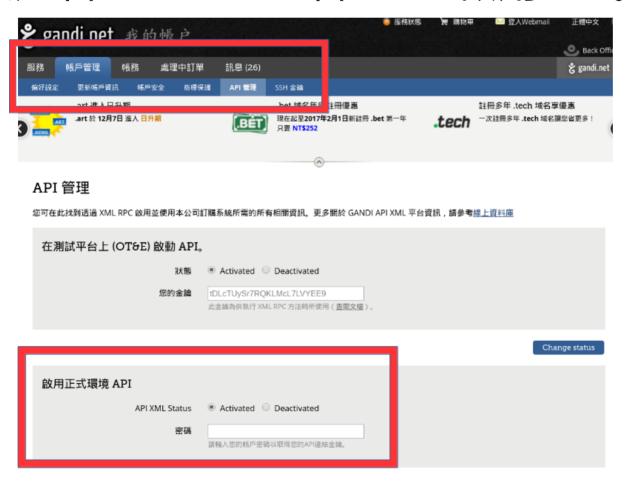
- https://v4.gandi.net
- AB12345-GANDI





APIKEY(v4)

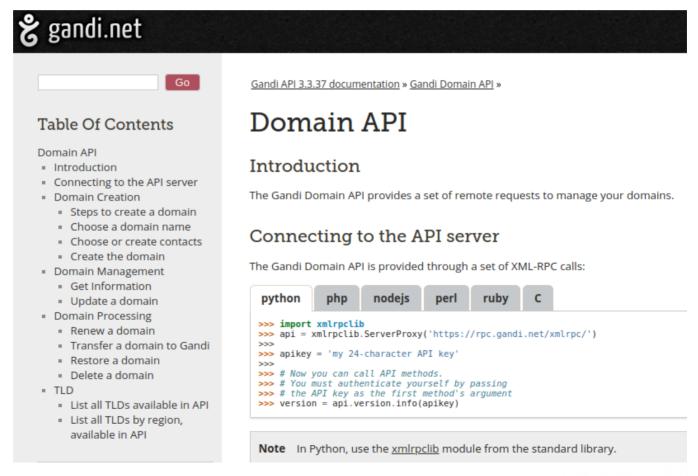
- 登入 https://v4.gandi.net
- 帳戶管理 → API 管理 → 啟用正式環境 API





Gandi API

https://doc.rpc.gandi.net/

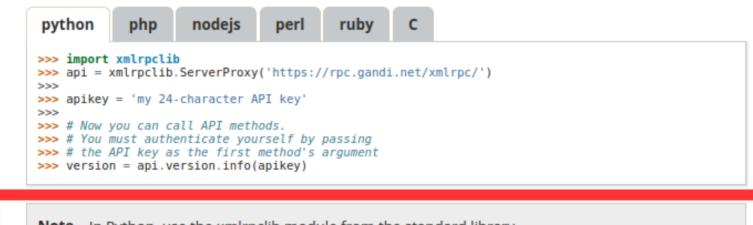




連接伺服器

Connecting to the API server

The Gandi Domain API is provided through a set of XML-RPC calls:



Note In Python, use the <u>xmlrpclib</u> module from the standard library.

In Python 3 xmlrpclib has been renamed xmlrpc.client.

Note the Domain API does not use HTTP authentication. It uses a custom authentication mechanism based on the API key.



中場休息



查詢域名是否可以註冊

Choose a domain name

First, you'll need to check the domain availability via the **domain.available()** method:

```
python    php    nodejs    perl    ruby

>>> import time
>>> domain = 'mydomain.net'
>>> result = api.domain.available(apikey, [domain])
>>> result
{'mydomain.net': 'pending'}
>>> while result[domain] == 'pending':
    time.sleep(0.7)
    result = api.domain.available(apikey, [domain])
>>> result
{'mydomain.net': 'unavailable'}
```

Note the available method is asynchronous. You have to call it again if the result is not ready.

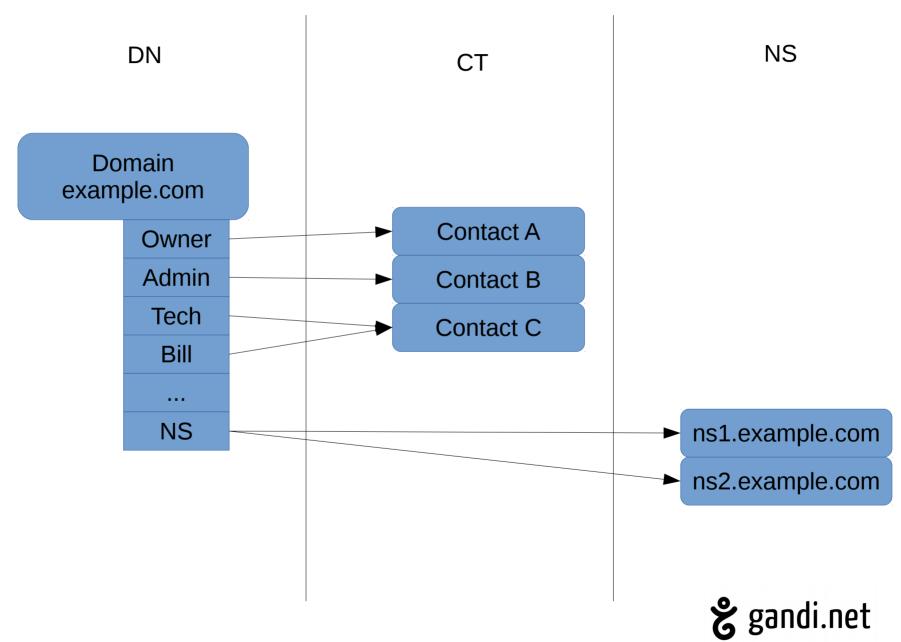


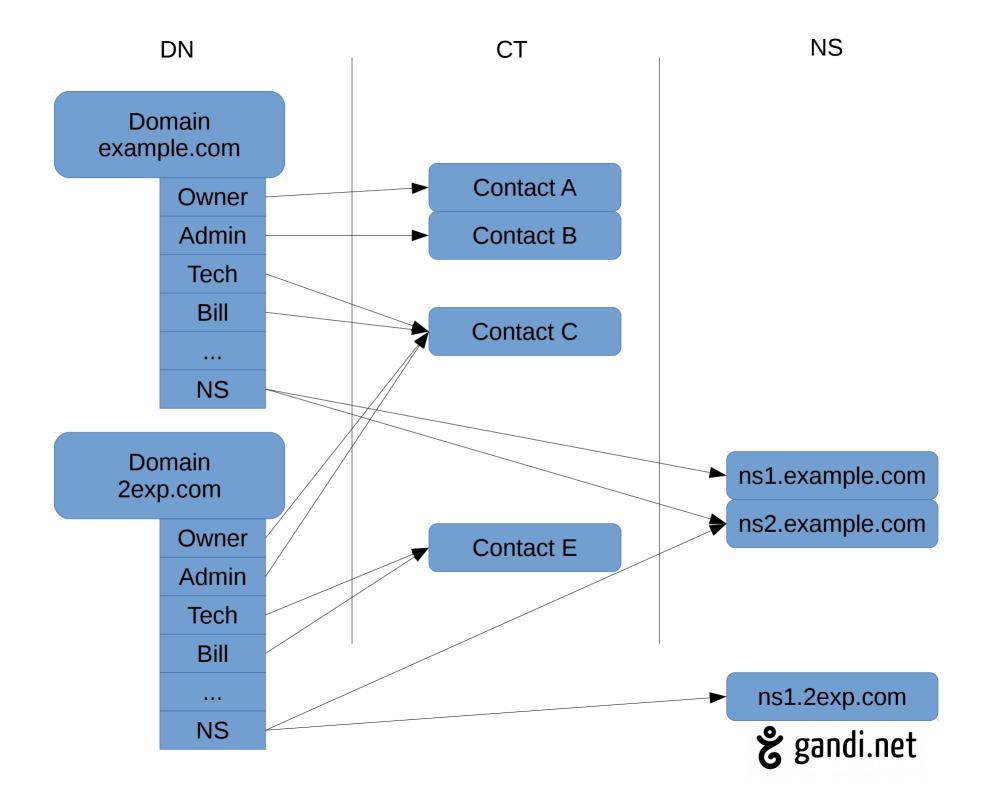
CT/DN/NS 指令分類

- List / Create / Info / Update / Delete + CT / DN / NS
 - CT List, DN List, NS List
 - CT Create, DN Create, NS Create
 - CT Info / DN Info / NS Info
 -

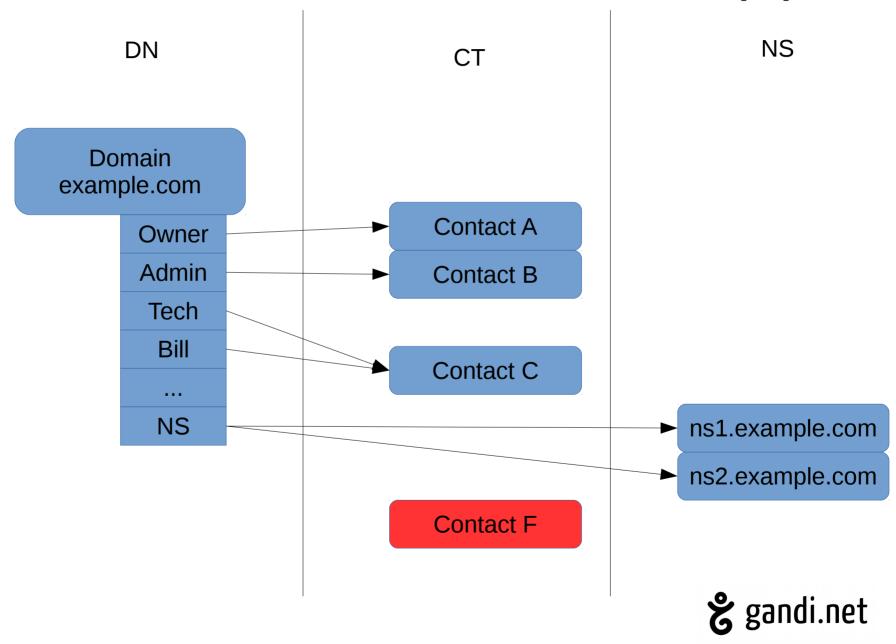


域名資料結構

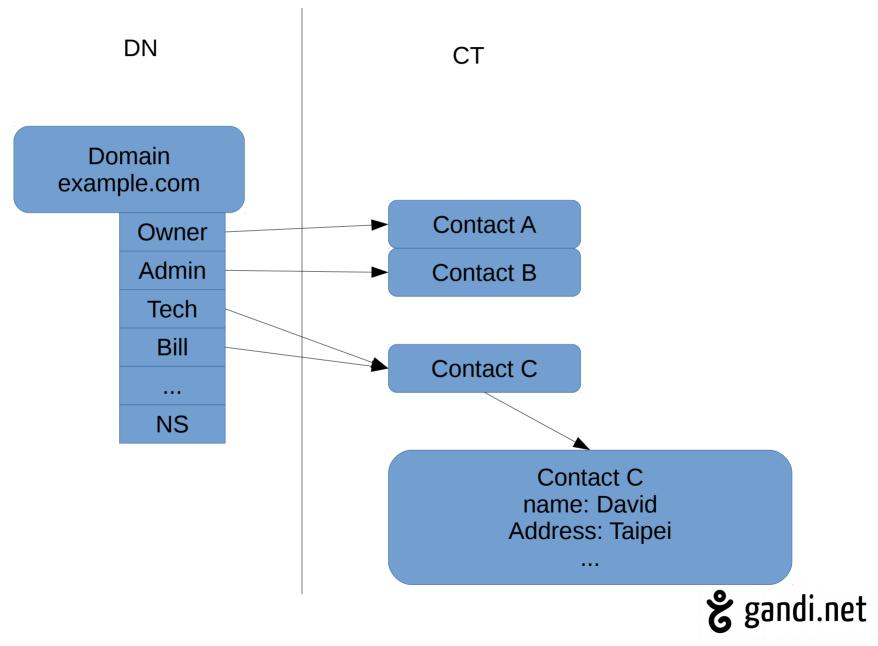




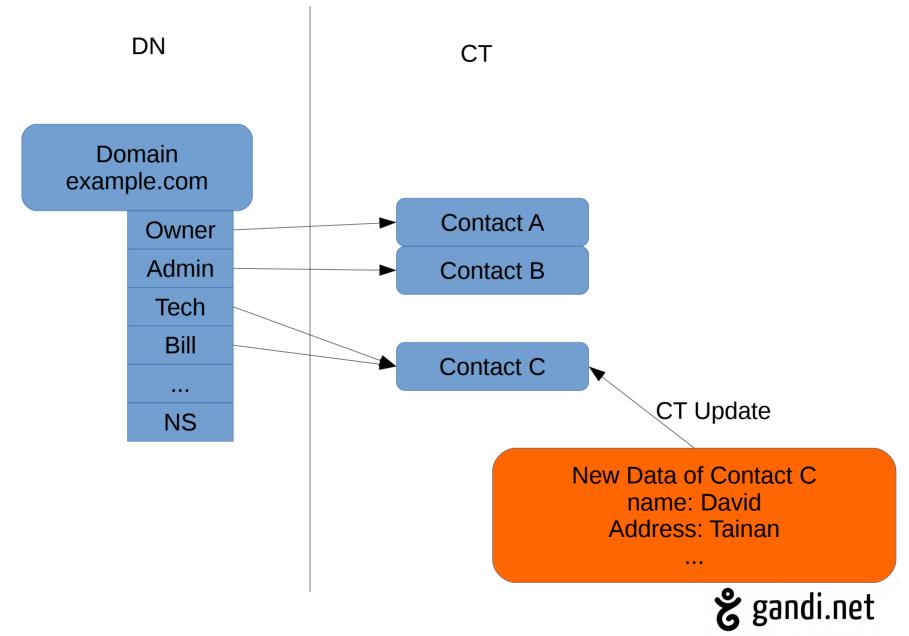
建立新聯絡人 - CT Create (F)



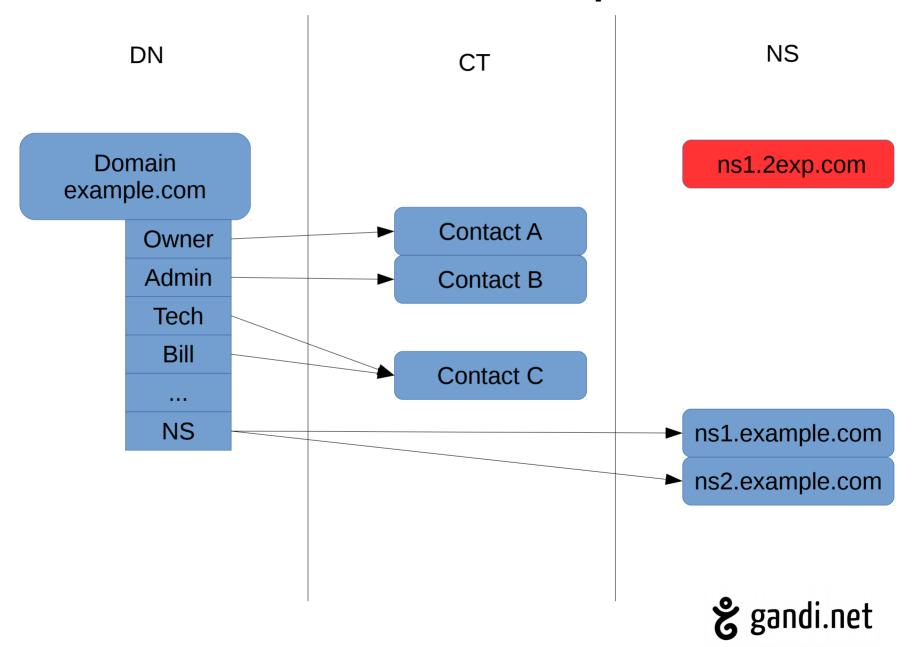
查看聯絡人資料 - CT Info (C)

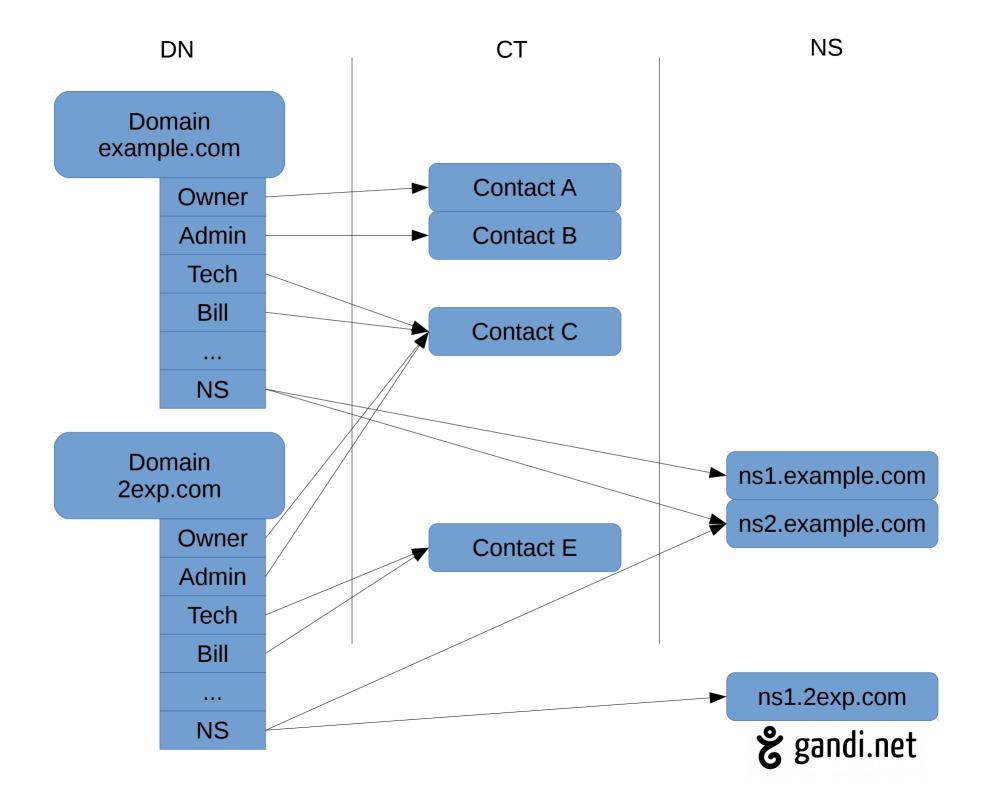


修改聯絡人資料 - CT Update (C)

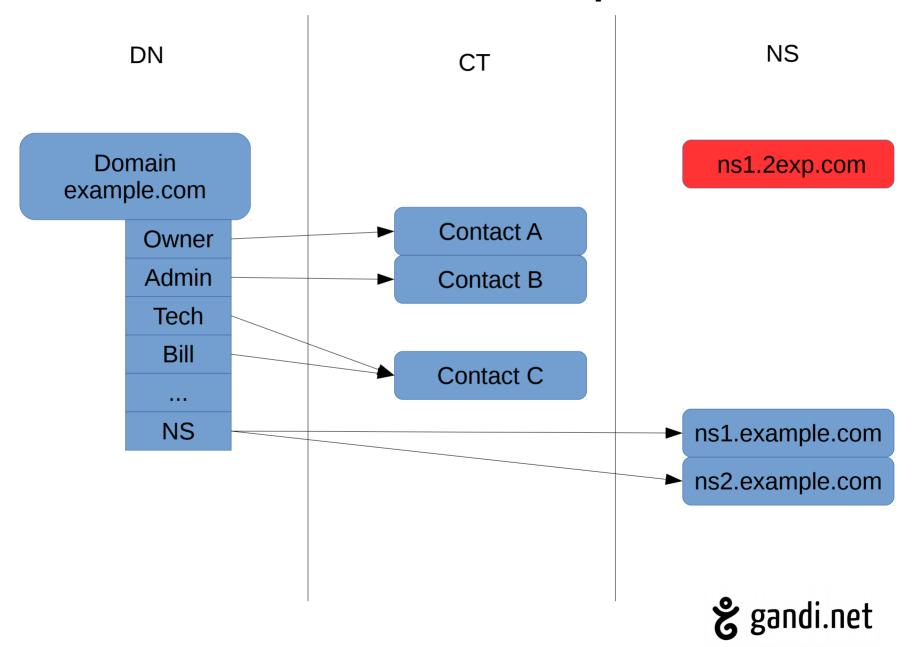


NS Create ns1.2exp.com

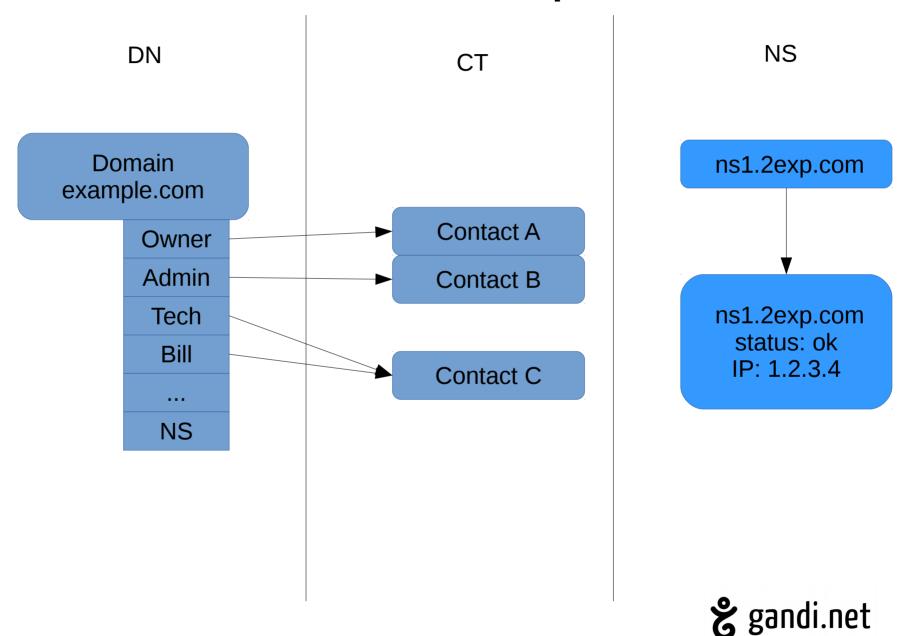




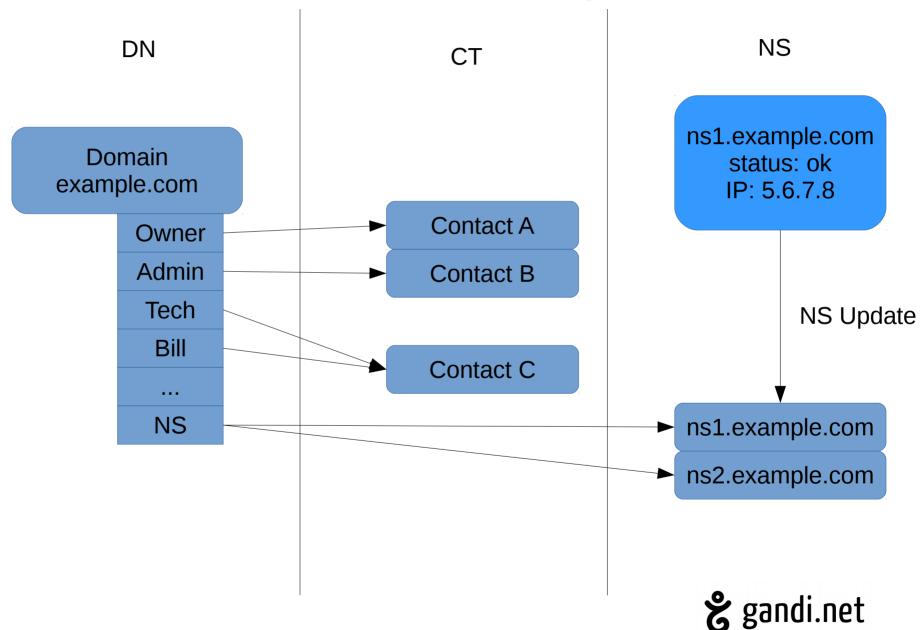
NS Create ns1.2exp.com



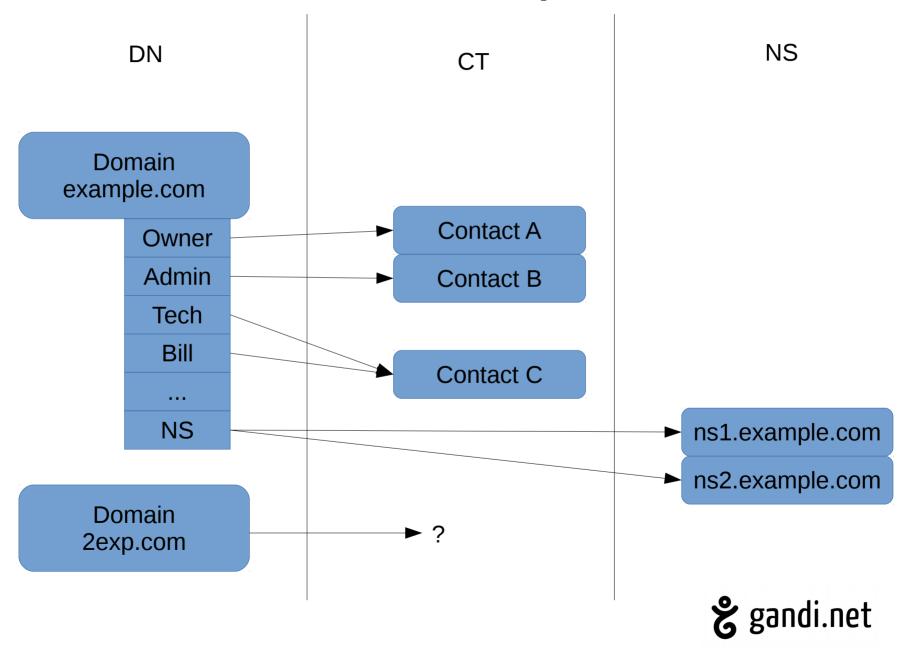
NS Info ns1.2exp.com



更換 NS IP - NS Update



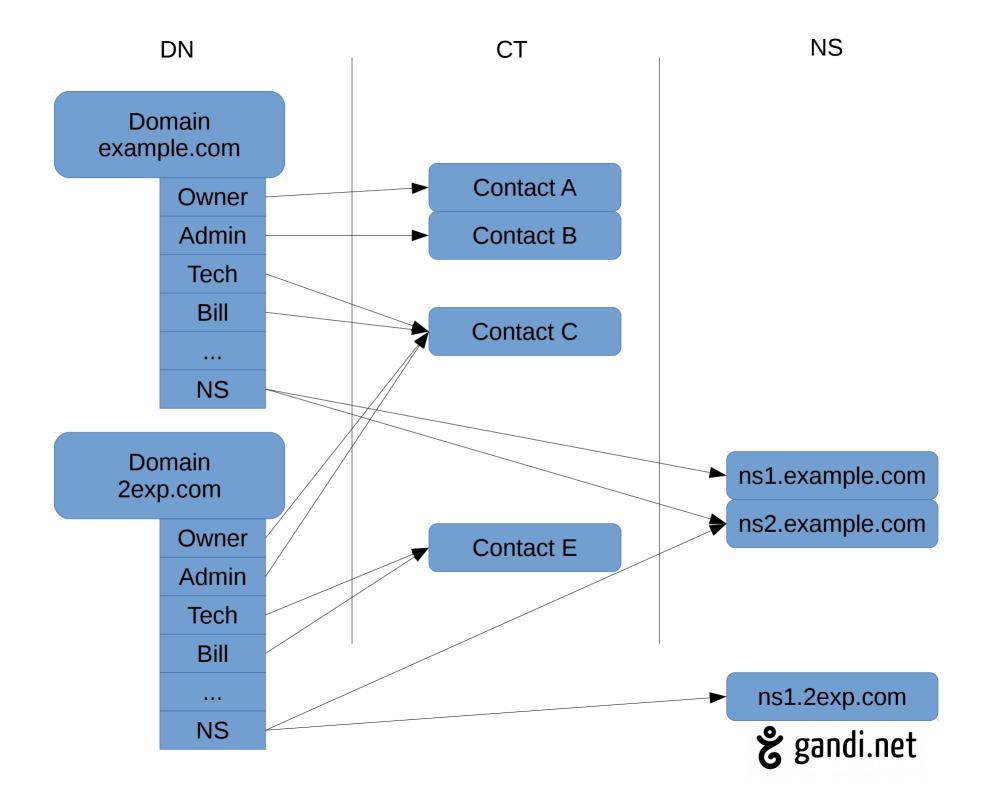
DN Create 2exp.com



DN Create

- 四個 CT (Owner/Admin/Bill/Tech) 都必須為正常 狀態
- NameServer 必須為正常狀態
 - DN Status = inactive 如果建立域名時沒有指定 NameServer





NameServer 趣談

- DN Create (2exp.com)
 - CT = ...
 - NS = ns1.2exp.com, ns2.2exp.com
 - Failed, 2exp.com 不存在
- NS Create ns1.2exp.com
 - Failed, 2exp.com 不存在



NameServer 趣談

- DN Create (2exp.com)
 - CT = ...
 - Success, Status: inactive
- NS Create ns1.2exp.com, ns2.2exp.com
 - Success
- DN Update (2exp.com)
 - NS = ns1.2exp.com, ns2.2exp.com
 - Success



NameServer 趣談

- DN Create (2exp.com)
 - CT = ...
 - NS = ns1.2exp.com, ns2.2exp.com
 - Success

- 系統幫你作
 - NS = ns1.gandi.net
 - DN Update ns1.2exp.com, ns2.2exp.com



DN Info (example.com)

DN

Domain example.com

Owner

Admin

Tech

Bill

• • •

NS

Owner: Contact A
Admin: Contact B
Tech: Contact C
Bill: Contact C
NS: ...

Status: ok

Domain

example.com

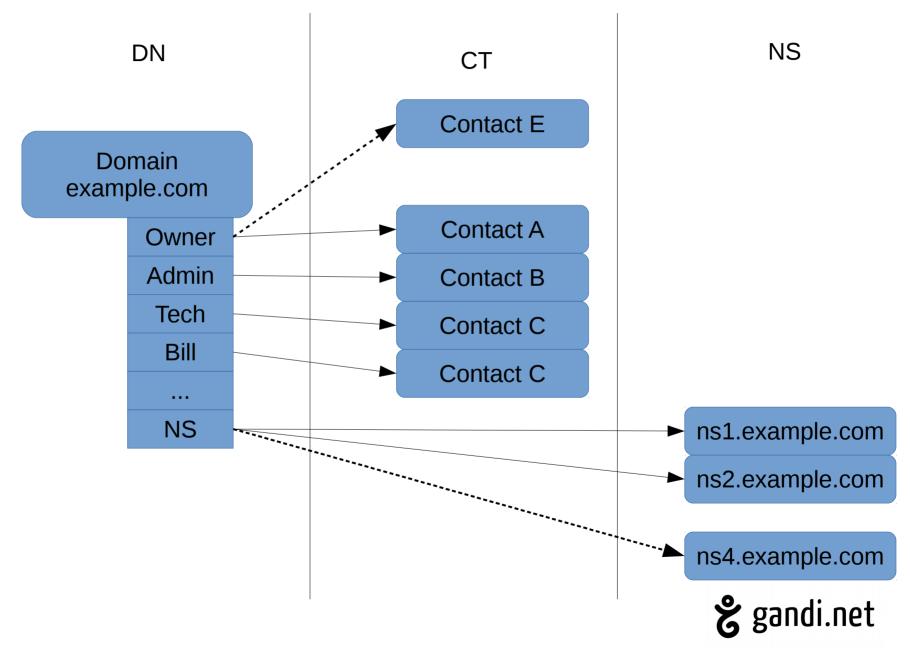
Expire date: ...
ClientHold

ServerHold

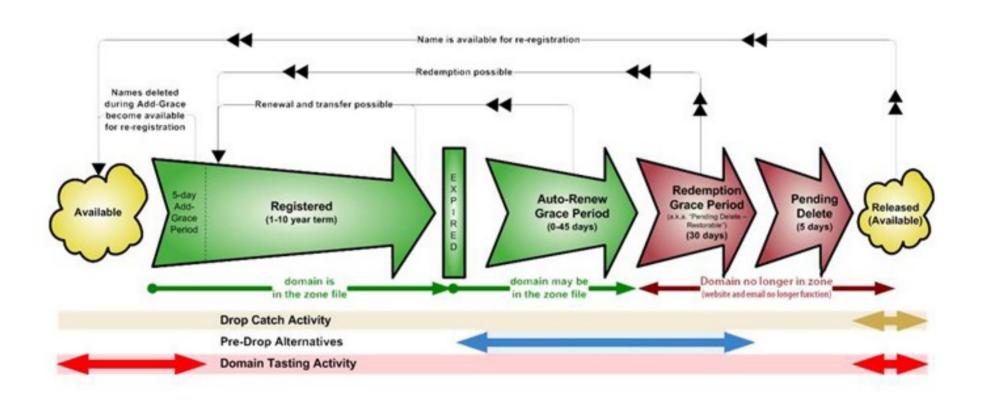
. . . .



DN Update (example.com)



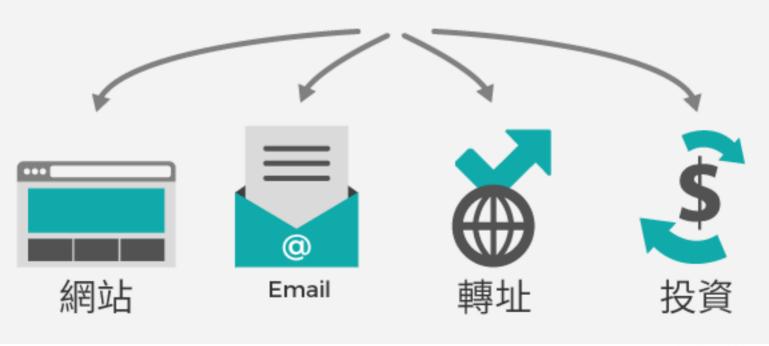
網域名稱的生命週期







網域名稱可以幫助您做這些事





網域名稱開放時程

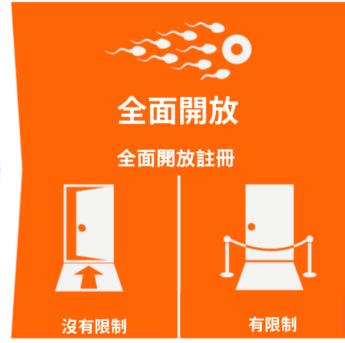




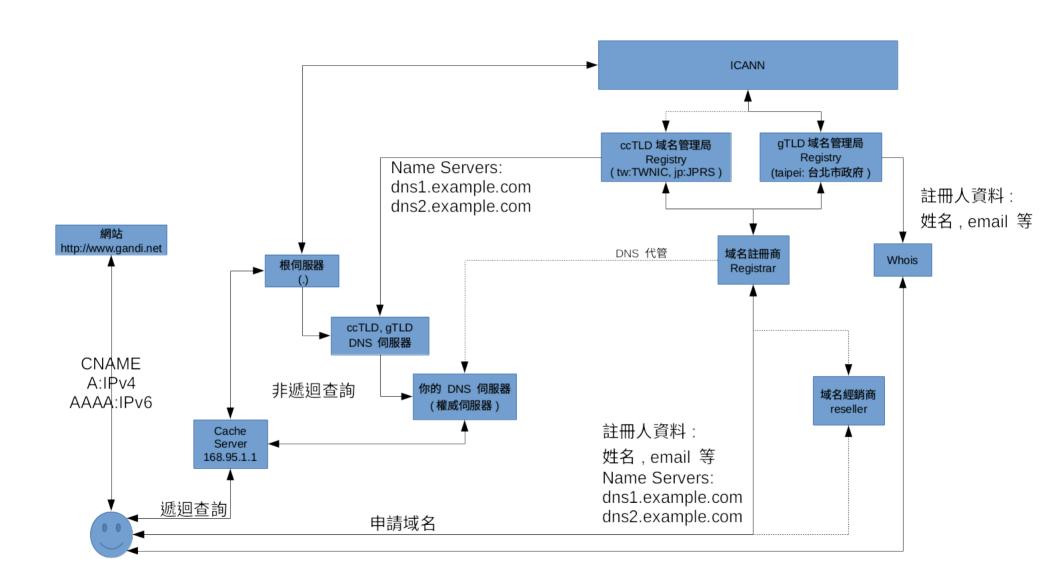
域名開放時程(二)













Gandi.net

- 每個新申請或是轉入的域名
 - 2 個免費的電子信箱(各 3GB,可加購 50GB)
 - v4: 5 個信箱共用 1GB 的空間
 - 無數量建制的郵件別名
 - 網頁轉址、郵件轉址免費
 - 註冊人資料隱藏免費
 - 首年 SSL 免費
 - 開發票



8 gandi.net







SIMPLE HOSTING



CLOUD

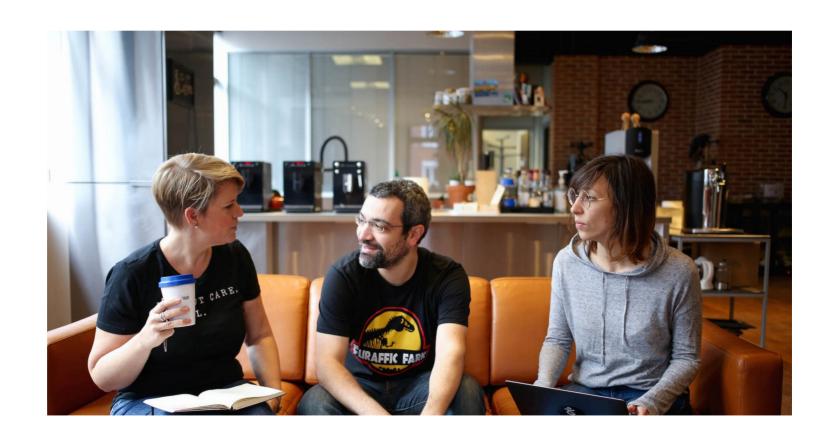


SECURITY



Gandi 企業客戶服務

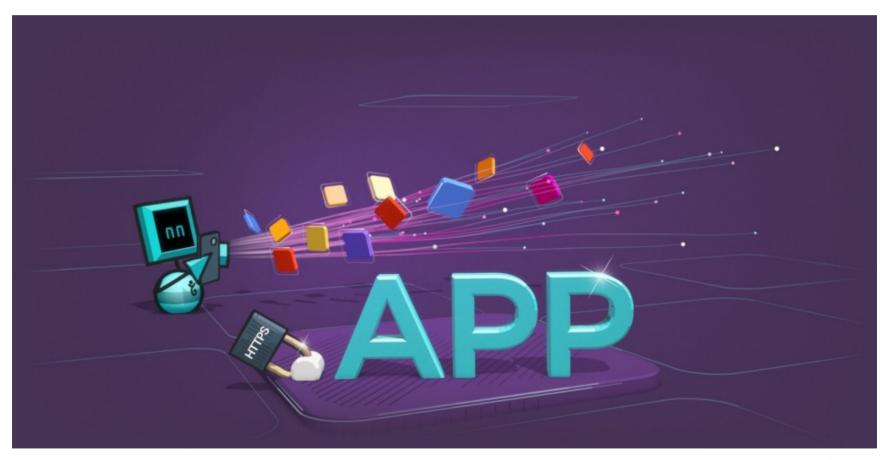
• 協助商標監控,700種域名註冊





.APP

• TWD\$732 / 年





% gandi.net