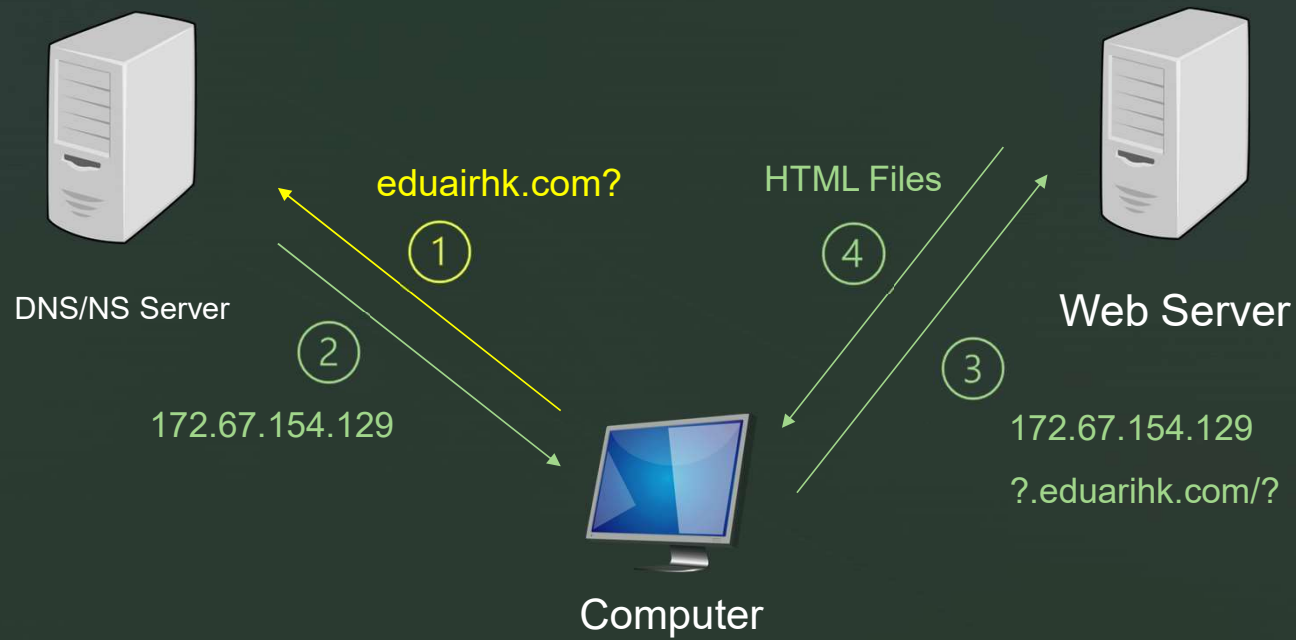




Introduction to Browsing

Introduction to Browsing



Domain Name

- eduairhk.com is bought at **GoDaddy**
 - Name Server Setting is forwarded to Cloudflare
 - Mail Server Setting is set to **Outlook**
 - Cloudflare: **Name Server** and **Reverse Proxy**
- edu-air.com is bought at **GoDaddy**
 - Forwarding to eduairhk.com

GoDaddy | Buy Domain Names

GoDaddy | Buy Domain Names

https://hk.godaddy.com/en/offers/godaddy?isc=HKGDYGON1&countryview=1¤cyType=HKD&cdtl...

代码整油之罐.pdf TXW240020S1-CTP... Welcome to Panelo... 83684188 基于51单片机的迷... YouTube Download... tft2.4寸液晶屏lcd显... 拍照即賣·私訊即... (52条消息) K210实... 目标跟踪基础知识 -...

GoDaddy Domain Names Websites & Hosting Email & Marketing 3050-7470 Help Chan

Find your perfect domain

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Find Your Domain

Prices are shown for first year only. Limit 1 per customer. Other discounts available. See cart for final pricing.

www. .com

Chan Man Fung

Customer #: 549315896

PIN: [View](#)

ACCOUNT

My Products

Renewals & Billing

Account Settings

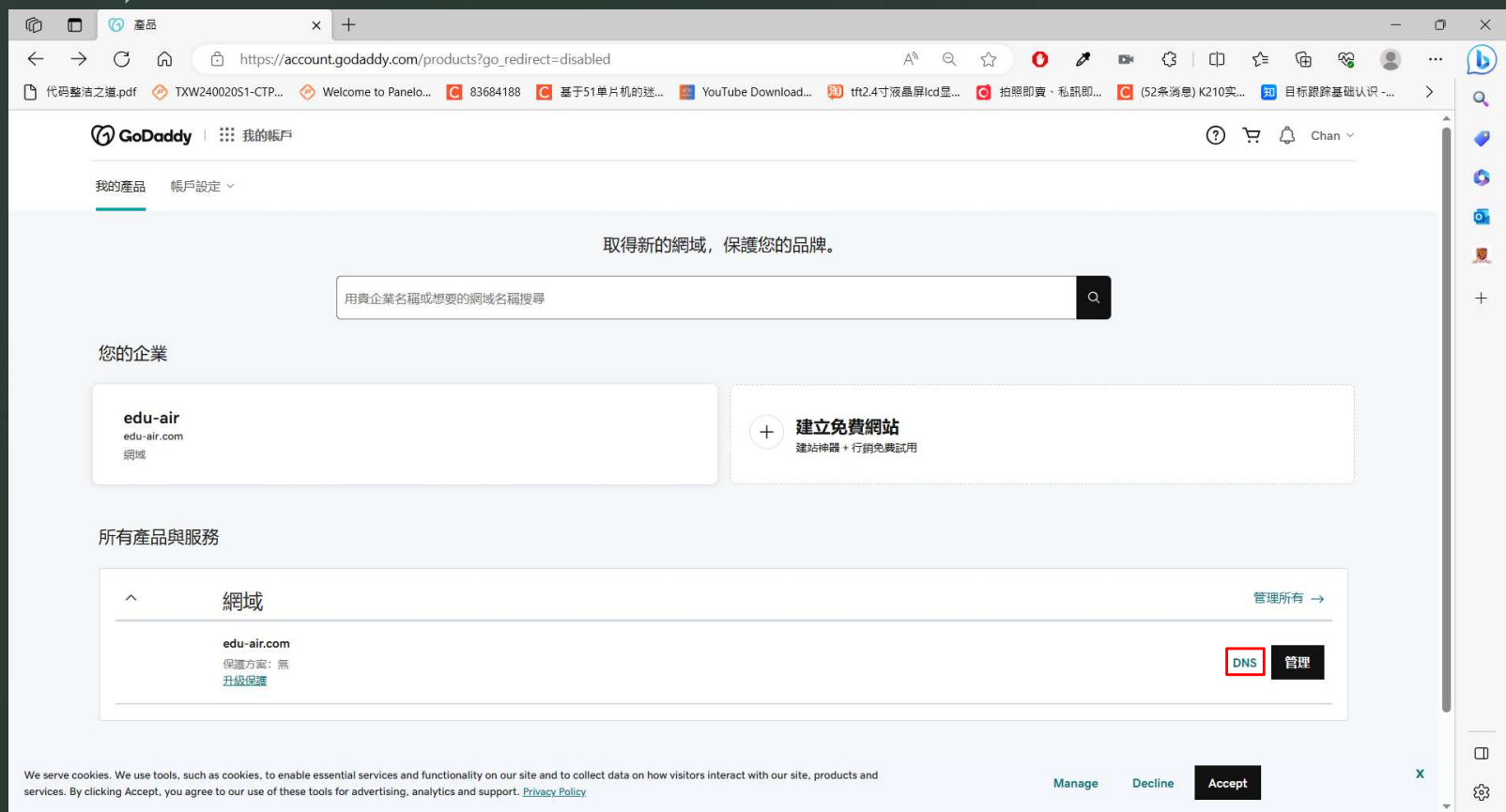
INBOX LINKS

Sign in to Office 365 Email

Sign in to GoDaddy Webmail

Sign Out

聯繫客服



DNS 管理

專案組合

DNS 全新

轉移

服務

設定

說明中心

通知

MC

購物車

DNS 管理

DNS Record: instructions on how to handle requests for that domain.
e.g. Domain name -> IP, Email Hosting, Verifying Domain name Ownership

DNS 記錄 轉址 名稱伺服器 超豪版 DNS 主機名稱

DNS 記錄會決定網域行為，如

Name Server: For DNS Hosting

新增記錄

篩選條件 操作

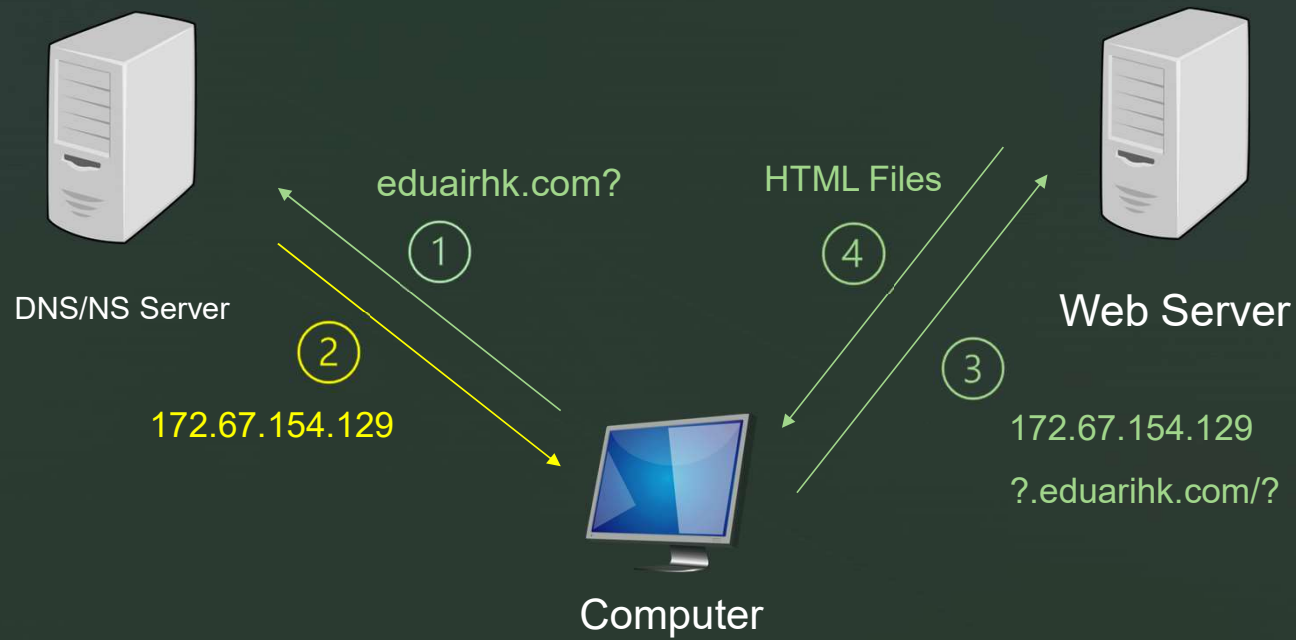
類型 ?	名稱 ?	資料 ?	TTL ?	刪除	編輯
<input type="checkbox"/>	A	@	15.197.142.173	600 秒	無法刪除 無法編輯

DNS Record

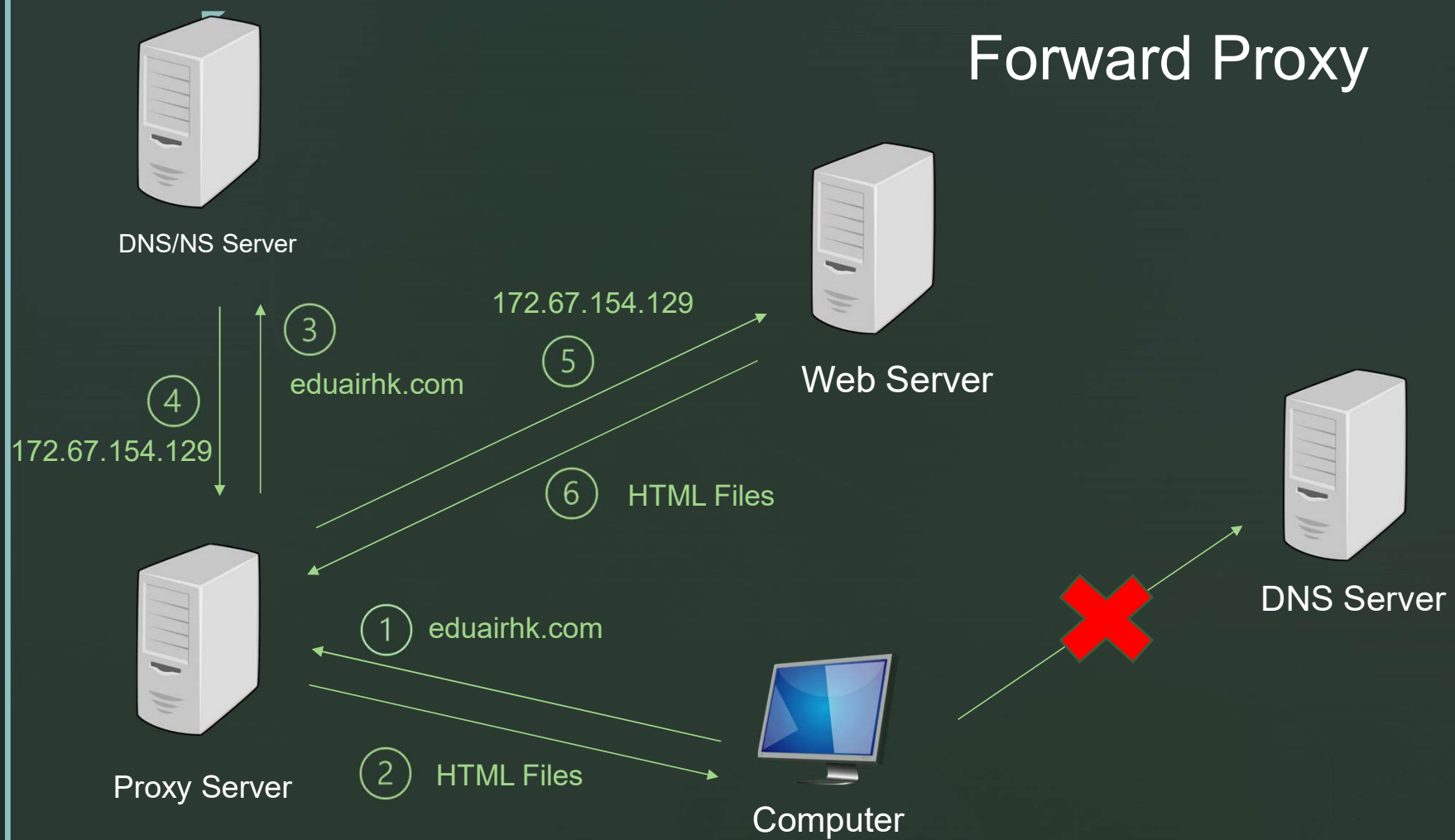
A: IPv4 IP位址
CNAME: Canonical Name 別名
MX: Mail Exchanger 郵件伺服器
TXT: Text 多用於驗證網域擁有權

類型 ▲	名稱	內容	Proxy 狀態	TTL	動作
A	admin		 通過 Proxy 處理	自動	編輯 ▶
A	beta		 通過 Proxy 處理	自動	編輯 ▶
A	eduhairhk.com		 通過 Proxy 處理	自動	編輯 ▶
A	e		 通過 Proxy 處理	自動	編輯 ▶
A	storage		 通過 Proxy 處理	自動	編輯 ▶
CNAME	autodiscover	autodiscover.outlook.com	 通過 Proxy 處理	自動	編輯 ▶
R2	download.eduhairhk.com	download	 通過 Proxy 處理	自動	編輯 ▶
CNAME	www	eduhairhk.com	 通過 Proxy 處理	自動	編輯 ▶
MX	eduhairhk.com		僅 DNS	自動	編輯 ▶
TXT	_acme-challenge		僅 DNS	自動	編輯 ▶
TXT	_acme-challenge		僅 DNS	自動	編輯 ▶
TXT	eduhairhk.com		僅 DNS	自動	編輯 ▶
TXT	eduhairhk.com		僅 DNS	自動	編輯 ▶

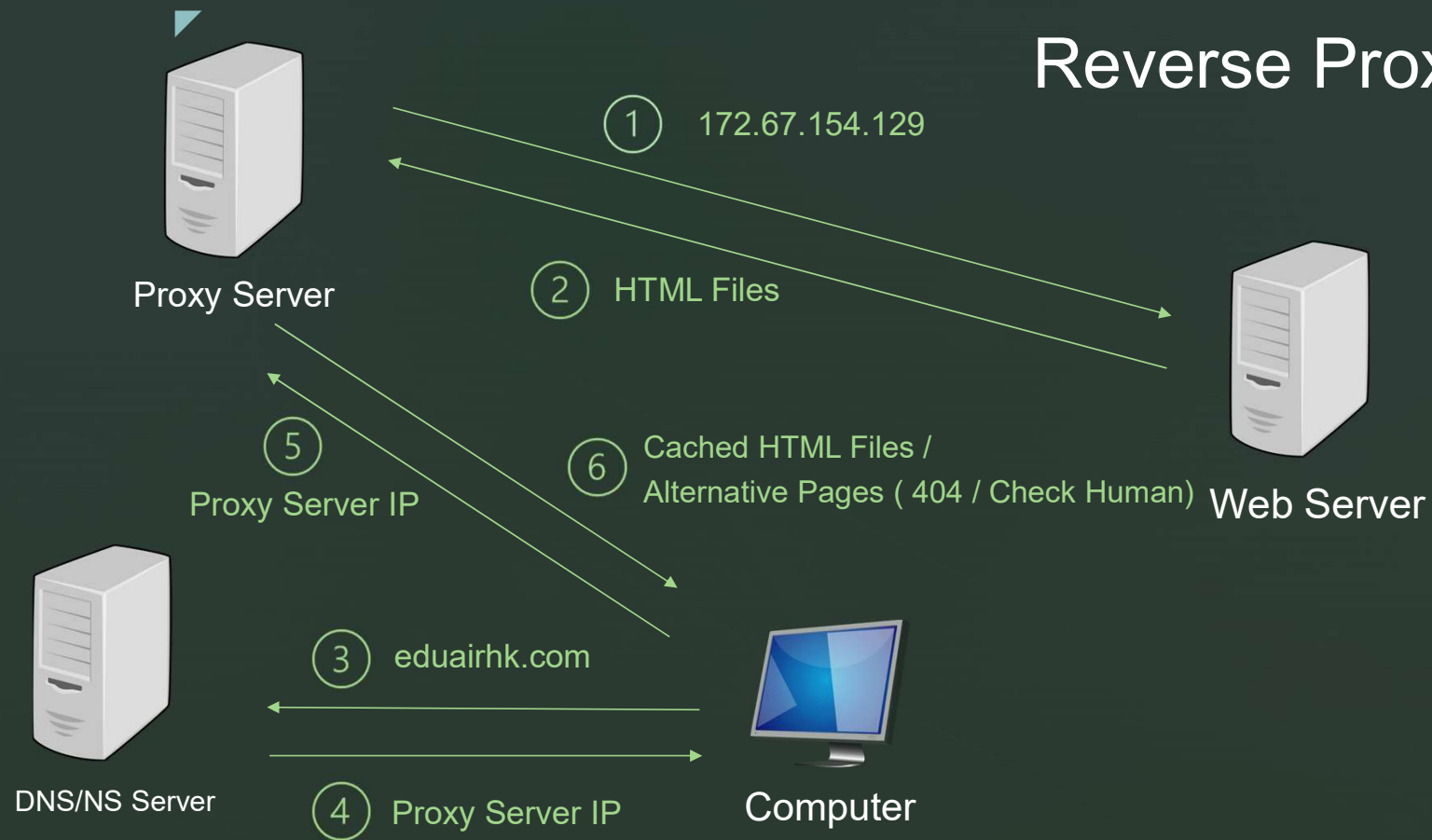
Introduction to Browsing



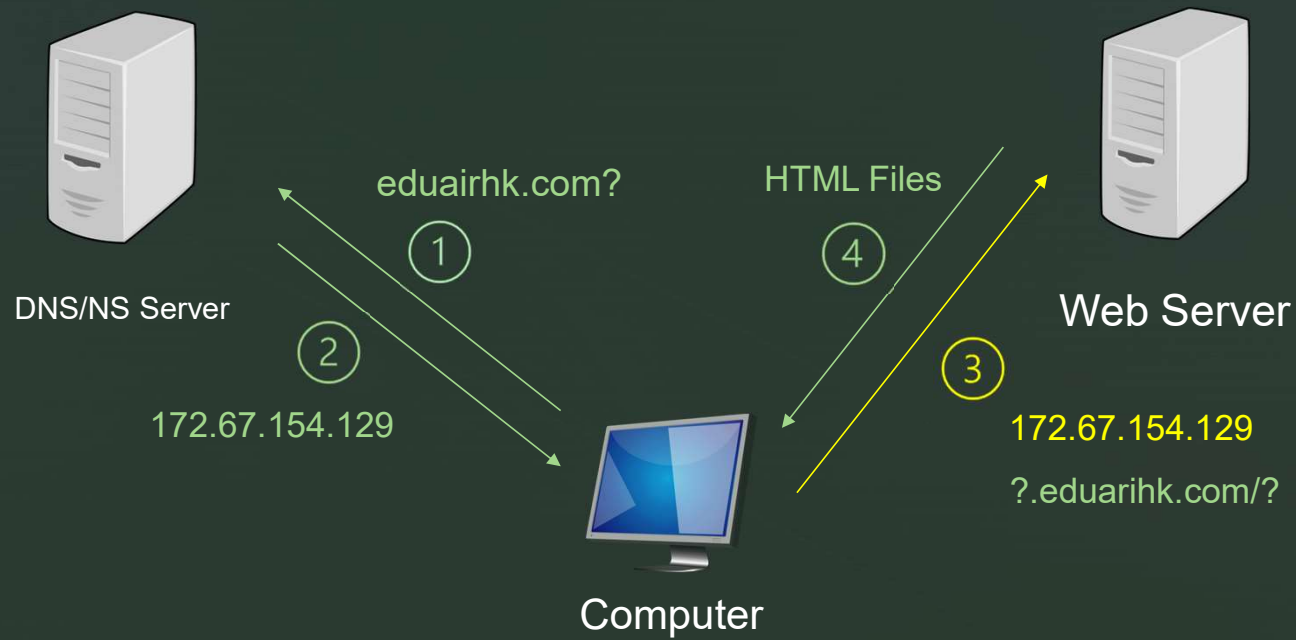
Forward Proxy



Reverse Proxy



Introduction to Browsing



Server

- Currently, Server is hosted on AWS EC2
- How to connect to server?

```
ssh -i xxxx.pem -4 ubuntu@eduairhk.com
```

SSH Key	Use IPv4	username@domain_name / username@ip_address
---------	----------	-----------------------------------------------

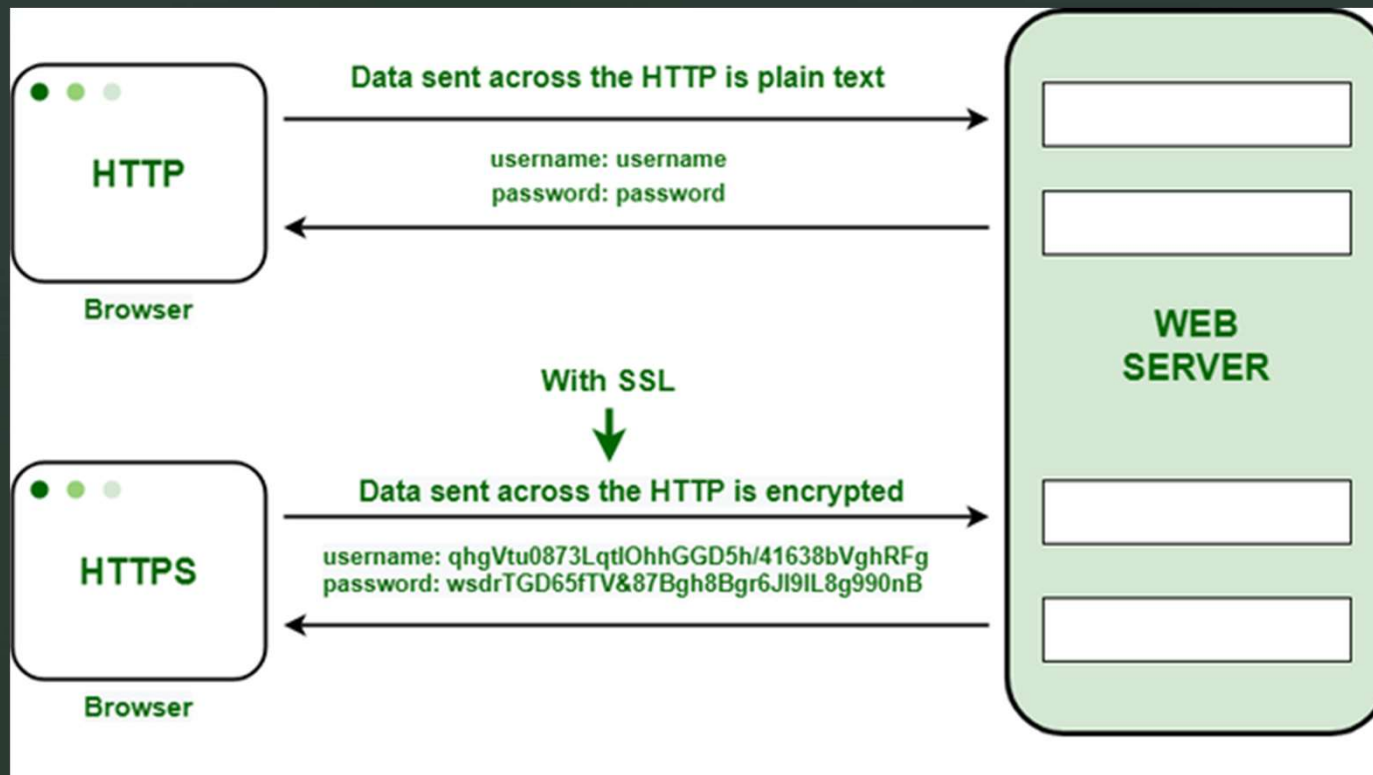
- Use **nginx** as webserver (/etc/nginx/enabled_sites)

Nginx

- Reverse Proxy
 - a.eduhairhk.com -> eduhairhk.com:3000
 - eduhairhk.com/a/c -> a.eduhairhk.com/c
 - b.eduhairhk.com -> edu-air.com
 - http://eduhairhk.com -> https://eduhairhk.com
- Web Server
 - d.eduhairhk.com -> /http/html/d/index.html
 - e.eduhairhk.com -> /http/html/e/index.html
- SSL Setting

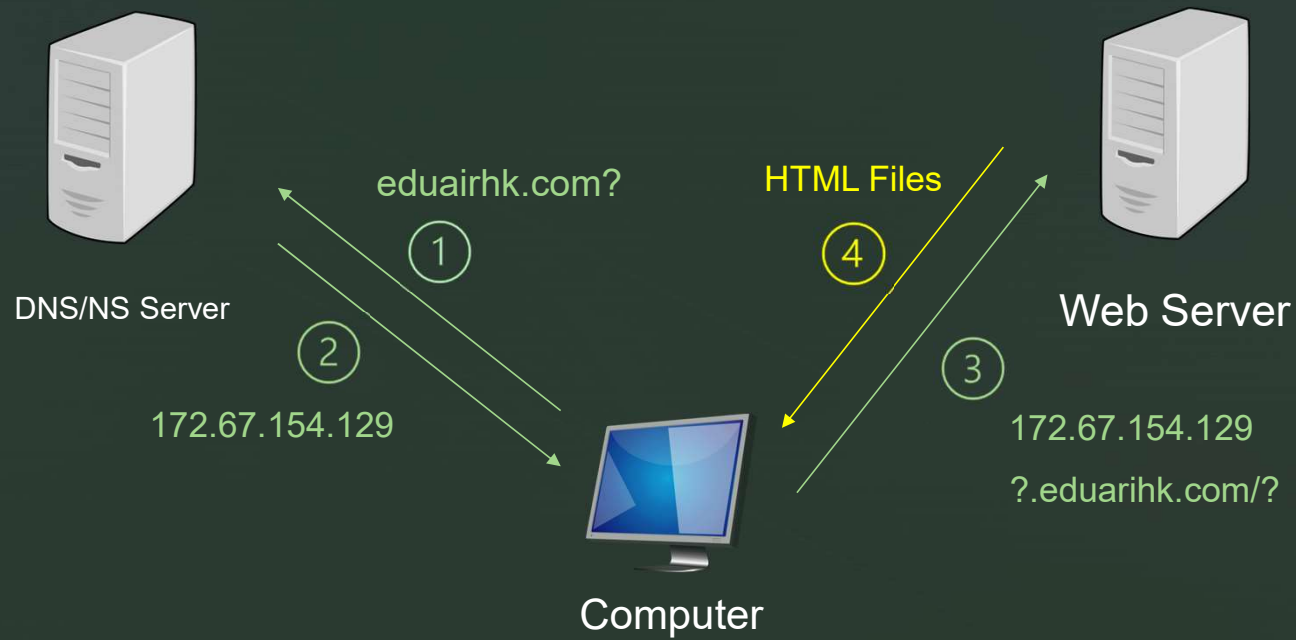
SSL/TLS and HTTPS

- Secure Sockets Layer/ Transport Layer Security
- SSL \approx TLS (safer)
- Simplify, HTTP with SSL = HTTPS
- Advantage
 - Secure connection
 - Encrypt personal information
 - BLE/ Serial/ Webcam... need HTTPS
- Currently using Cloudflare SSL (15 years)



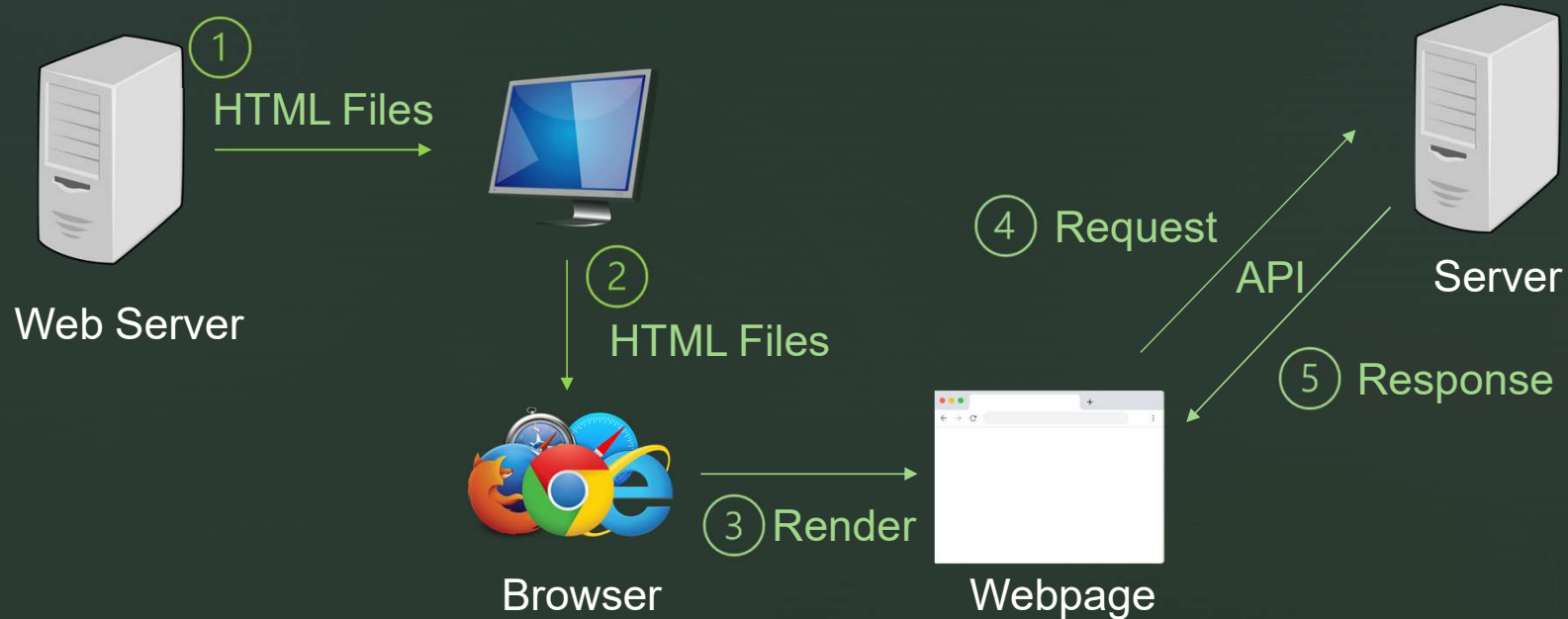
Hash: irreversible
Encryption: reversible

Introduction to Browsing



Web Application

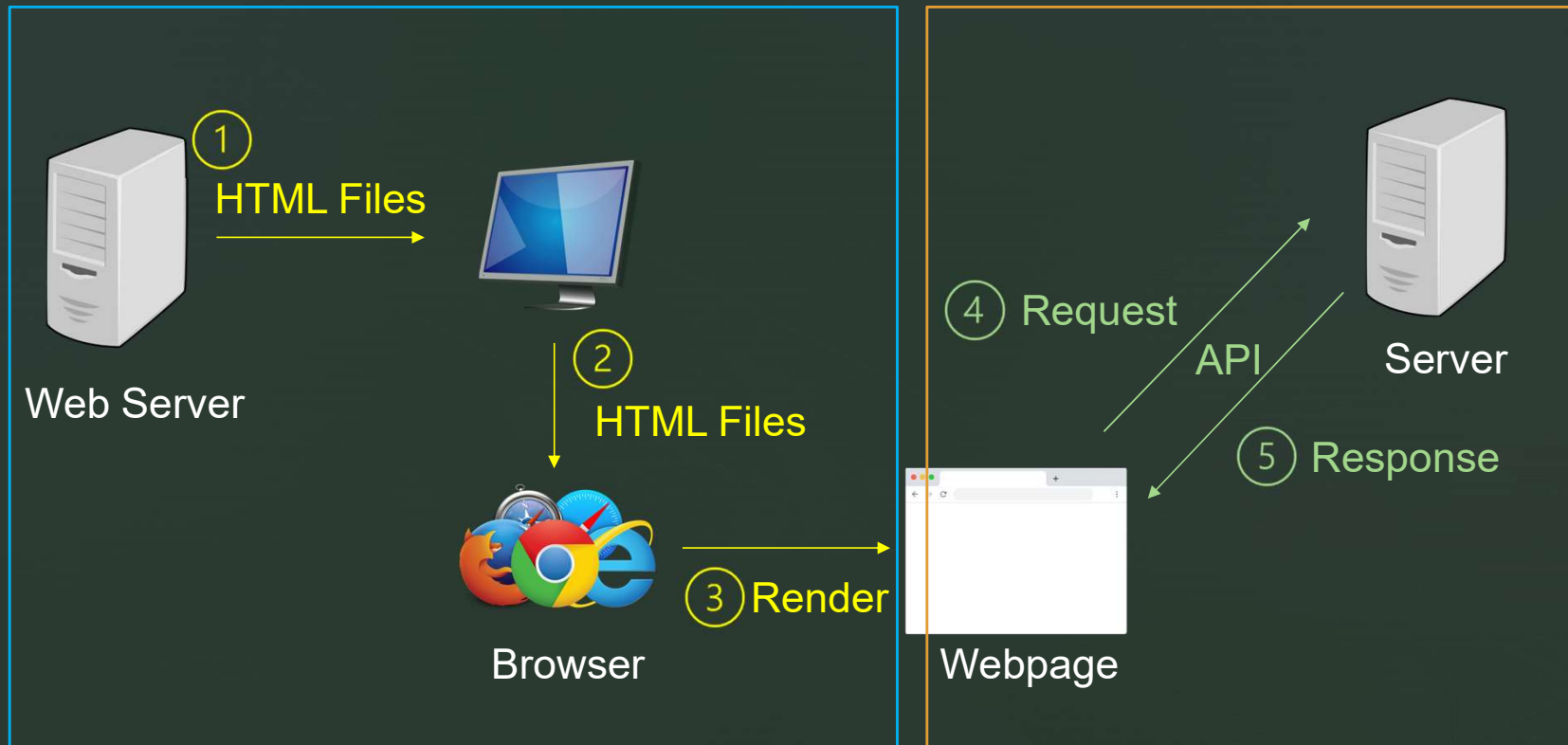
- Server = Computer running apps and response to request
- Web App = App running on a computer that return html



Web Application

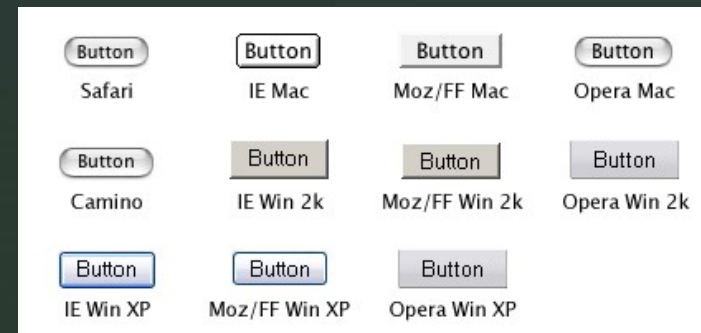
Front-end

Back-end

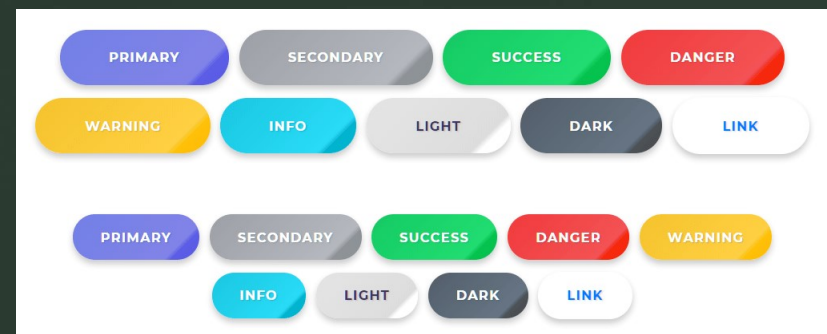


Basic Website Structure

- HTML (骨架)
`<html> </html>`
- CSS (皮膚)
`<style> </style>`
- JavaScript (肌肉)
`<script> </script>`



Browser default button style



CSS styled button

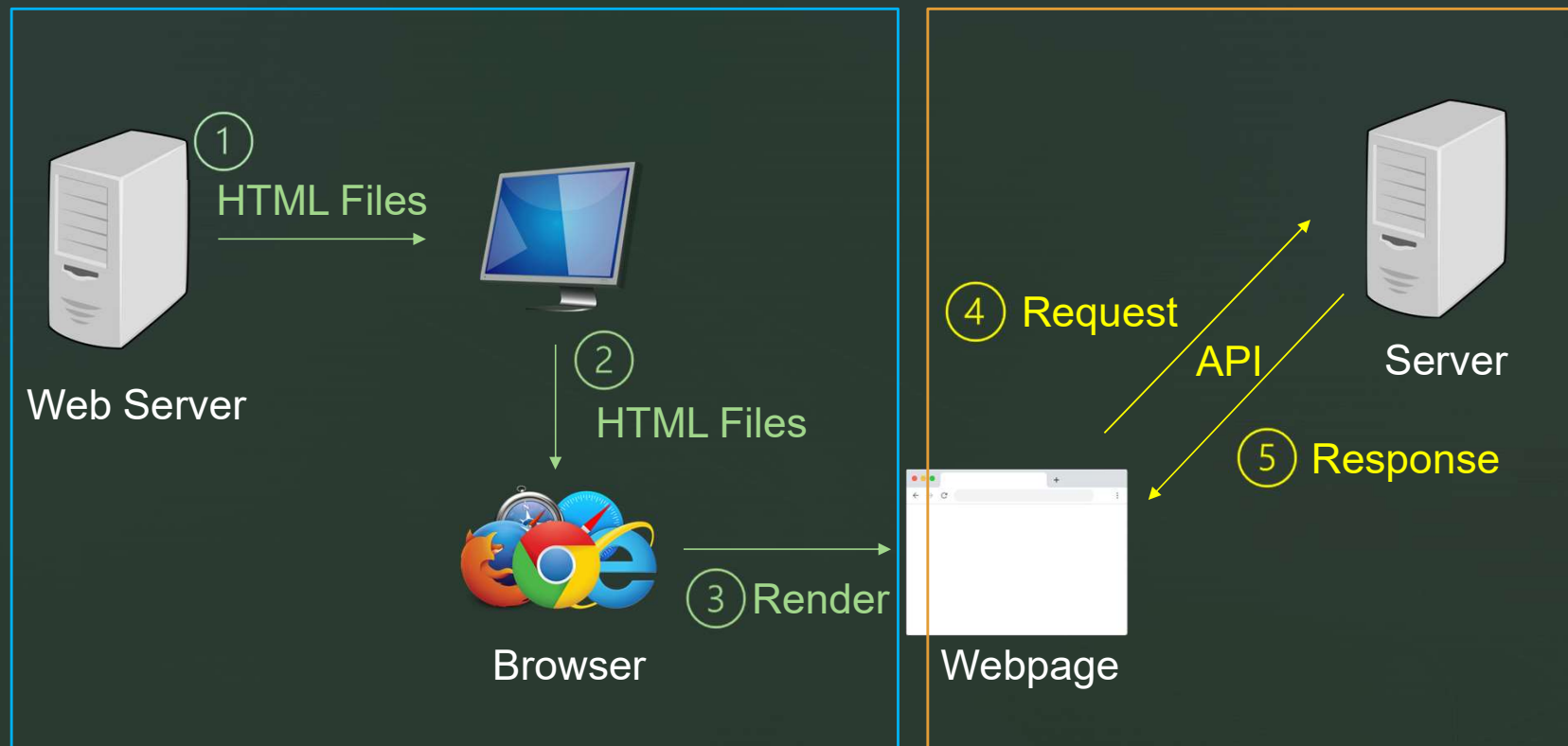
Front-end

- Framework: Vue.js - SPA (Single-Page Application)
- Why Framework? Reduce Code Repetition, Simplify, Scalability
- SPA Advantage:
 - Quick Loading Time
- Disadvantage:
 - SEO
- Other Frameworks: React.js, Angular.js

Web Application

Front-end

Back-end



Back-end

- Provide Public / Private **API**
- API: Application Programming Interface. Interface that allow different applications(software) to communicate Example: Google Map, PayPal, ChatGPT
- Currently using Express.js for temp file storage
- Download File stored in Cloudflare
- New: Can use WordPress account to login

Payment

- AWS EC2 & Instance Storage: 3.9USD per month (lowest spec) @AWS
- Domain Name: 160HKD for Second Year @GoDaddy
- Domain Name2 (edu-air.com): canceled
- Security and Reverse Proxy: 20USD per month @Cloudflare
- Outlook Business: ? @Outlook

Server Spec Selection

Name	Price	CPU	Memory	Month
t3.nano	0.0052 USD	2	0.5 GiB	3.9USD
t3.micro	0.0104 USD	2	1 GiB	7.8USD
t3.small	0.0208 USD	2	2 GiB	15.6USD
t3.medium	0.0416 USD	2	4 GiB	31.2USD
t3.large	0.0832 USD	2	8 GiB	62.4USD
t3.xlarge	0.1664 USD	4	16 GiB	122.8USD
t3.2xlarge	0.3328 USD	8	32 GiB	249.6USD