# 109AB0716資安報告

#### 壹、WSL

- 一、安裝WSL
- 二、檢查目錄

我們先來嘗試找出Ubuntu的檔案根目錄,結果發現裡面檔案都被隱藏起來了這是為了避免用Window介面意外更動到Linux的檔案,造成錯誤

- 三、Ubuntu教學
  - 1.利用 login 登入, 並且輸入密碼
  - 2.BASH基本指令
  - 3. 這樣我們就進到vim編輯器中
  - 4.按 | 進入編輯模式
  - 5. #! 代表通往直譯器的路徑,而我們直譯器 bash 預設放在 /bin 目錄中

若 # 就代表備註,此行並不會被執行

這裡我們用 read 指令讀進input, 並用 sname 抓取變數name, echo 印出結果

- 6.嘗試利用:p 指令儲存 hello.sh 檔案並退出 vim 筆記本
- 7.但這樣會跳出來退出失敗,這是由於還並沒有儲存
- 8.利用:wp 指令儲存 hello.sh 檔案並退出 vim 編輯器
- 9.利用 cat 指令查看 hello.sh 檔案內容
- 10.利用 bash 指令執行 hello.sh 檔案

#### 貳、WSL的GUI

- 1. 安裝VcXsrv
- 2. 透過WSL安裝環境
- 3. 新增一個Bash Script用來啟動gui
- 4. 以vim編輯內容
- 5. 執行
- 6. 開啟X server
- 6. 修改用戶名稱
- 7.理論上這樣就可以了,但我還是打不開
- 參、改用套件來安裝GUI
  - 1.更新apt-get,確保list汰舊換新
  - 2.安裝 Gedit
  - 3.安裝 GIMP
  - 4.安裝 Nautilus
  - 5.安裝 VLC
  - 6.安裝 X11 應用程式
  - 7.安裝 Google Chrome for Linux

切換到暫存目錄: cd /tmp

透過 Wget 安裝套件: sudo wget https://dl.google.com/linux/direct/google-chrome-stable\_current\_amd64.deb

取得穩定的版本: sudo dpkg -i google-chrome-stable\_current\_amd64.deb

修正安裝套件: sudo apt install --fix-broken -y

再設定一次套件: sudo dpkg -i google-chrome-stable\_current\_amd64.deb

然後還是失敗了,不過還是有學到很多東西

#### 肆、WebGoat

- 一、安裝流程:
  - 1.下載JDK
  - 2.下載Webgoat
  - 3.設定環境變數
  - 4.打開終端機
  - 5.輸入指令開啟Webgoat
  - 6.開啟瀏覽器,輸入<u>http://localhost:8080/WebGoat</u>
- 二、使用流程
  - 1.註冊帳號
  - 2.登入成功!
  - 3.打開Lession 1
  - 4. 第二節內容,輸入名字
  - 5.當打開F12後發現是一個POST
  - 6.查驗magic number,先送出之後觀測header
- 三、模擬Proxy
  - 1.下載ZAP
  - 2.設定port為8081
  - 3.打開工具裡的選項
  - 4.生成憑證且儲存
  - 5.打開瀏覽器→設定→安全性→隱私→憑證
  - 6.選擇受信任的根憑證授權單位
  - 7.確認無誤點擊完成
  - 8.設定→查詢→開啟電腦的Proxy設定
  - 9.設定為一樣的8081

伍、Markdown語法

測試文字

測試文字

測試文字

陸、參考資料

柒、心得

# 壹、WSL

## 一、安裝WSL

#### SETP1 啟用 Windows 子系統 Linux 版

dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart

#### SETP2 啟用虛擬機器功能

dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart

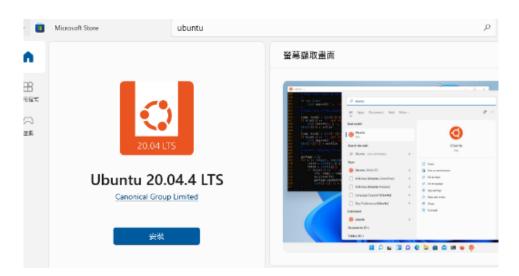
#### SETP3 從以下連結下載 Linux 核心更新套件

https://wslstorestorage.blob.core.windows.net/wslblob/wsl\_update\_x64.msi

#### SETP4 將 WSL 2 設定為預設版本

wsl --set-default-version 2

#### SETP5 到微軟商店安裝Linux,這裡我選用Ubuntu 20.04.4 LTS



## 二、檢查目錄

我們先來嘗試找出Ubuntu的檔案根目錄,結果發現裡面檔案都被隱藏起來了 這是為了避免用Window介面意外更動到Linux的檔案,造成錯誤



### 三、Ubuntu教學

### 1.利用 login 登入,並且輸入密碼

```
ez945y@DESKTOP-MB0CTE4:~$ sudo login
[sudo] password for ez945y:
DESKTOP-MB0CTE4 login:
Login timed out after 60 seconds.
ez945y@DESKTOP-MB0CTE4:~$ pwd
/home/ez945y
```

#### 2.BASH基本指令

- pwd 顯示目前所在位置(print word)
- 1s 顯示目前所在位置的檔案(list)
- cd 切換當前所在位置的檔案(change word)
- 代表目前所在位置
- 代表目前所在位置的父資料夾

- mkdir 建立一個新的資料夾(make direction)
- touch 建立一個新檔案
- vim 開啟Vim編輯器

```
ez945y@DESKTOP-MBOCTE4:~$ pwd
/home/ez945y
ez945y@DESKTOP-MBOCTE4:~$ ls
ez945y@DESKTOP-MBOCTE4:~$ cd ..
ez945y@DESKTOP-MBOCTE4:/home$ cd ez945y
ez945y@DESKTOP-MBOCTE4:~$ mkdir newbag
ez945y@DESKTOP-MBOCTE4:~$ vim hello.sh
```

#### 3. 這樣我們就進到vim編輯器中

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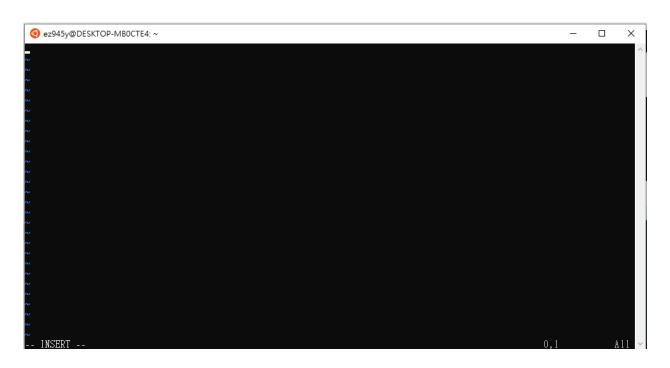
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```

### 4.按 I 進入編輯模式



5. #! 代表通往直譯器的路徑,而我們直譯器 bash 預設放在 /bin 目錄中若 # 就代表備註,此行並不會被執行這裡我們用 read 指令讀進input,並用 sname 抓取變數name, echo 印出結果



6.嘗試利用:p 指令儲存 hello.sh 檔案並退出 vim 筆記本

## 7.但這樣會跳出來退出失敗,這是由於還並沒有儲存

## 8.利用:wp 指令儲存 hello.sh 檔案並退出 vim 編輯器

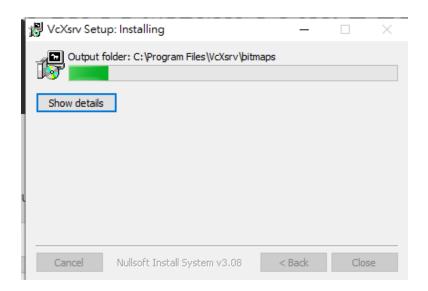
## 9.利用 cat 指令查看 hello.sh 檔案內容

```
ez945y@DESKTOP-MBUCTE4:~$ cat hello.sh
#! bin/bash
read name
echo "hello $name"
```

# 10.利用 bash 指令執行 hello.sh 檔案

```
ez945y@DESKTOP-MBOCTE4:~$ bash hello.sh
Mike
hello Mike
```

## 貳、WSL的GUI



#### 1. 安裝VcXsrv

下載點:<a href="https://sourceforge.net/projects/vcxsrv/files/latest/download">https://sourceforge.net/projects/vcxsrv/files/latest/download</a>

#### 2. 透過WSL安裝環境

```
sudo apt-get install ubuntu-desktop gnome-tweak-tool
```

```
ez945y@DESKTOP-MBUCTE4:/tmp$ xdpyinfo
kdpyinfo: unable to open display "".
ez945y@DESKTOP-MBOCTE4:/tmp$ sudo apt-get install ubuntu-destop gnome-tweak-tool
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package ubuntu-destop
ez945y@DESKTOP-MBOCTE4:/tmp$ touch gui.sh
ez945y@DESKTOP-MBOCTE4:/tmp$ chmod u+x gui.sh
ez945y@DESKTOP-MBOCTE4:/tmp$ vim gui.sh
```

## 3. 新增一個Bash Script用來啟動gui

```
touch gui.sh
chmod u+x gui.sh
```

```
ez945y@DESKTOP-MB0CTE4:/tmp

#! bin/bash
sudo service dbus restart
/mnt/c/Program\ Files/VcXsrv/vcxsrv.exe :0 -ac &
DISPLAY=0:0 XDG_SESSION_TYPE=x11 gnome-session
/mnt/c/Windows/System32/taskkill.exe /IM vcxsrv.exe /T /F_
```

#### 4. 以vim編輯內容

```
#!/bin/bash
sudo service dbus restart
/mnt/c/Program\ Files/VcXsrv/vcxsrv.exe :0 -ac &
DISPLAY=0:0 XDG_SESSION_TYPE=x11 gnome-session
/mnt/c/Windows/System32/taskkill.exe /IM vcxsrv.exe /T /F
```

#### 5. 執行

```
sudo ./gui.sh
```

```
# bin/bash
sudo service dbus restart
/mnt/c/Program Files/VcXsrv/vcxsrv.exe: 0 -ac &
DISPLAY=0:0 XDG_SESSION_TYPE=xll gnome-session
/mnt/c/Windows/System32/taskkill.exe /lW vcxsrv.exe /T /F
ez945yeDESKTOP-MBOCTE4:/tmp$ sudo bash gui.sh

* Stopping system message bus dbus
* Stopping system message bus dbus
dbus[14874]: Unknown username "whoopsie" in message bus configuration file
Unable to init server: Could not connect: Connection refused

(gnome-session-check-accelerated:14889): Gtk-WARNING **: 13:30:47.535: cannot open display: 0:0
Unable to init server: Could not connect: Connection refused

(gnome-session-check-accelerated:14890): Gtk-WARNING **: 13:30:47.543: cannot open display: 0:0
gnome-session-binary[14879]: WARNING: software acceleration check failed: Child process exited with code 1
gnome-session-binary[14879]: CRITICAL: We failed, but the fail whale is dead. Sorry....
Welcome to the VcXsrv X Server
Vendor: The VcXsrv Project
Release: 1.20.14.0

OS: Windows NT 6.2 build 9200 (64-bit)
Contact: marha@users.sourceforge.net
LoadPreferences: C.\Usercs\admin_AppData\Roaming\.XWinrc not found
LoadPreferences: C.oading C:\Program Files\VcXsrv\system.XWinrc

kD: P1D & 7236 (P1D & 16976 b) 子處理程序) 的處理程序已終止。
```

### 6. 開啟X server



## 6. 修改用戶名稱

sudo chown -R username:username .cache

## 7.理論上這樣就可以了,但我還是打不開

## 參、改用套件來安裝GUI

### 1.更新apt-get,確保list汰舊換新

```
© es945y@DESKIOP.MBOCTE4:—S sudo apt-get update
[sudo] password for es945y;
Hit: http://archive.ubuntu.com/ubuntu focal InRelease
6et: 2 http://archive.ubuntu.com/ubuntu focal InRelease
6et: 2 http://archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]
6et: 3 http://archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]
6et: 3 http://archive.ubuntu.com/ubuntu focal-security/main and64 Packages [148 rkB]
6et: 5 http://archive.ubuntu.com/ubuntu focal-security/main and64 Packages [148 rkB]
6et: 6 http://security.ubuntu.com/ubuntu focal-security/main and64 cn-f Metadata [10.4 kB]
6et: 8 http://security.ubuntu.com/ubuntu focal-security/main and64 cn-f Metadata [10.4 kB]
6et: 10 http://security.ubuntu.com/ubuntu focal-security/restricted and64 cn-f Metadata [20.4 kB]
6et: 11 http://security.ubuntu.com/ubuntu focal-security/restricted and64 cn-f Metadata [20.8 B]
6et: 12 http://security.ubuntu.com/ubuntu focal-security/restricted and64 cn-f Metadata [20.8 B]
6et: 13 http://security.ubuntu.com/ubuntu focal-security/restricted and64 cn-f Metadata [20.8 B]
6et: 13 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Packages [22.2 kB]
6et: 13 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Packages [22.2 kB]
6et: 14 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Packages [22.2 kB]
6et: 16 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Cn-f Metadata [512 B]
6et: 16 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Packages [22.4 kB]
6et: 20 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Cn-f Metadata [512 B]
6et: 21 http://security.ubuntu.com/ubuntu focal-security/multiverse and64 Cn-f Metadata [512 B]
6et: 22 http://security.ubuntu.c
```

#### 2.安裝 Gedit

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
acl advaita-icon-theme apg aptdaemon aptdaemon-data aspell aspell-en at-spi2-core avahi-daemon avahi-utils bluez
bubblevrap cheese-common colord colord-data copp cpp-9 cracklib-runtime crda cups-pk-helper dconf-cli
desktop-file-utils dictionaries-common dne-root-data dnamasy-base docbook-xml enacsen-common enchant-2
evolution-data-server evolution-data-server-common fontconfig fprintd gcc-9-base grdaj gedit-common geoclue-2.0
giril.2-gackstopenums-3,0 giril.2-gatk-1.0 giril.2-gath-1.0 giril.2-gaccine-2.0 giril.2-gack jiril.2-gack jir
```

#### 3.安裝 GIMP

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
fonts-droid-fallback fonts-noto-mone fonts-urw-base35 ghostscript gimp-data i965-va-driver intel-media-va-driver
libaacs0 liband2 libaon0 libauthen-sas1-perl libavcodec58 libavformat58 libavuri156 libbabl-0.1-0 libbdplus0
libblas3 libbluray2 libcand2 libcocland2 libcocland3 libcocland3 libcocland3 libcoclan
```

#### 4.安裝 Nautilus

```
Reading package lists... Done

Reading package lists... Done

Reading state information... Done

Re following additional packages will be installed:

gyfs gyfs.backends gyfs.common gyfs.daemons gyfs.libs libcdio.cdda2 libcdio.paramoia2 libcdio18 libcue2 libdee-1.0-4

libexempi6 libeif7 libesf.-lil4 libgef1-common libsyps2 libatp-common libutp-runtime libatp9

libnautilus.extensionla libnfs13 libtotem.plparser.common libtotem.plparser18 libtracker.comtrol.2.0-0

libtracker.miner-2.0-0 libtracker.sparq1-2.0-0 libunity-protocol-private0 libunity-scopes.json.def-desktop libunity9

nautilus.data tracker tracker-extract tracker.aniner.fs

Suggested packages:

bluez-obevd samba.common unity-common eog evince | pdf-viewer gnome-sushi nautilus-extension-brasero nautilus-sendto

totem | np3-decoder

The following NEV packages will be installed:

gyfs gyfs.backends gyfs.common gyfs-daemons gyfs-libs libcdio-cdda2 libcdio-paramoia2 libcdio18 libcue2 libdee-1.0-4

libexempi8 libgif7 libgsf-1-li4 libgef-1-common libgxps2 libatp-common libatp-runtime libatp9

libnautilus-extensionla libnfs13 libtotem.plparser-common libtotem.plparser18 libtracker-control-2.0-0

libtracker-niner-2.0-0 libtracker-sparq1-2.0-0 libunity-protocol-private0 libunity-scopes-json-def-desktop libunity9

nautilus nautilus-data tracker tracker-extract tracker-miner-fs

O upgraded, 33 nevly installed, 0 to remove and 163 not upgraded.

Need to get 3890 kB of archives.

After this operation, 16.2 kB of additional disk space vill be used.

Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main and64 gyfs-common all 1.44.1-lubuntul.1 [70.0 kB]

Get:2 http://archive.ubuntu.com/ubuntu focal-updates/main and64 gyfs-bandens and64 1.44.1-lubuntul.1 [15 kB]

Get:3 http://archive.ubuntu.com/ubuntu focal/main and64 libda-paramoia2 and64 1.44.1-lubuntul.1 [118 kB]

Get:16 http://archive.ubuntu.com/ubuntu focal/main and64 libda
```

#### 5.安裝 VLC

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
fonts-freefont-ttf liba52-0.7.4 libaribb24-0 libass9 libbasicusageenvironment1 libcddb2 libdc1394-22 libdca0
libdouble-conversion3 libdvbpsi10 libdvdnav4 libdvdread7 libebm14v5 libfaad2 libgroupsock8 libixm110 libkate1
liblirc-client0 liblivemedia77 liblua5.2-0 libmad0 libmatroska6v5 libmpcdec6 libmpcg2-4 libmysofa1
libopenmpt-modplug1 libcre2.16-0 libplacebo7 libpostproc55 libprotobuf-lite17 libproxy-tools libqt5core5a
libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5 libqt5widgets5 libqt5x1lextras5 libresid-builderOc2a
libsd1-image1.2 libsd11.2debian libsidplay2 libmadio7.0 libspatialaudio libsr11 libssh2-1 libupnp13
libusageenvironment3 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libxcb-xinerama0 libxcb-xinput0
qt5-gtk-platformtheme qttranslations5-110n vlc-bin vlc-data vlc-110n vlc-plugin-base vlc-plugin-notify vlc-plugin-qt
vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output vlc-plugin-video-splitter vlc-plugin-visualization
Suggested packages:
libdvdcss2 lirc qt5-image-formats-plugins qtwayland5 sndiod
The following NEW packages will be installed:
fonts-freefont-ttf liba52-0.7.4 libaribb24-0 libass9 libasicusageenvironment1 libcddb2 libdc1394-22 libdca0
libdouble-conversion3 libdvbpsi10 libdvdnav4 libdvdread7 libebm14v5 libfaad2 libgroupsock8 libixm110 libkate1
liblirc-client0 liblivemedia77 liblua5.2-0 libmad0 libmatroska6v5 libmpcdec6 libmpeg2-4 libmysofa1
libopenmpt-modplug1 libpcre2-l6-0 libplacebo7 libpostproc55 libprotout-lite17 libproxy-tools libqt5core5a
libqt5dbus5 libqt5gui5 libqt5metwork5 libqt5svg5 libqt5widgets5 libqt5x1lextras5 libresid-builder0c2a
libdc1-image1.2 libsd11.2debian libsidplay2 libsndio7.0 libspatialaudio0 libsrt1 libssb2-1 libupnp13
libusageenvironment3 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libxcb-xinerama0 libxcb-xinput0
qt5-gtk-platformtheme qttranslations5-l10n vlc vlc-bin vlc-data vlc-l10n vlc-plugin-base vlc-plugin-n
```

#### 6.安裝 X11 應用程式

```
ez945y@DESKTOP-MBOCTE4:~$ sudo apt install x11-apps -y
[sudo] password for ez945y:
Reading package lists... Done
Building dependency tree
Reading state information... Done
x11-apps is already the newest version (7.7+8).
O upgraded, O newly installed, O to remove and 163 not upgraded.
```

#### 7.安裝 Google Chrome for Linux

```
Reading package lists... Done

Reading package lists... Done

Reading state information... Done

Correcting dependencies... Done

Reading state information... Done

Correcting dependencies... Done

The following additional packages will be installed:
    fonts-liberation

The following NEW packages will be installed:
    fonts-liberation

O upgraded, I newly installed, O to remove and 163 not upgraded.

I not fully installed or removed.

Reed to get 822 kB of archives.

After this operation, 2139 kB of additional disk space will be used.

Get: http://archive.ubuntu.com/ubuntu focal/main and64 fonts-liberation all 1:1.07.4-11 [822 kB]

Fetched 822 kB in 22 kJ St 182 kB of 825 kB of 82 kB
```

切換到暫存目錄: cd /tmp

透過 Wget 安裝套件: sudo wget https://dl.google.com/linux/direct/google-chrome-stable\_current\_amd64.deb

取得穩定的版本: sudo dpkg -i google-chrome-stable\_current\_amd64.deb

修正安裝套件: sudo apt install --fix-broken -y

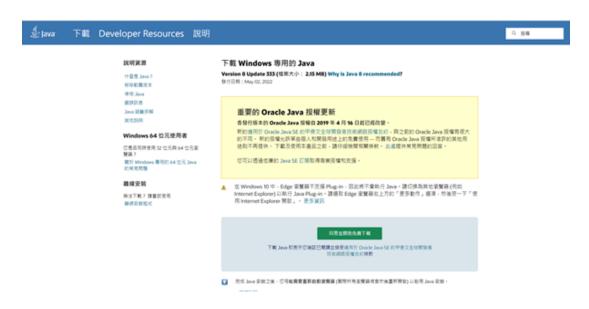
再設定一次套件: sudo dpkg -i google-chrome-stable\_current\_amd64.deb

#### 然後還是失敗了,不過還是有學到很多東西

## 肆、WebGoat

## 一、安裝流程:

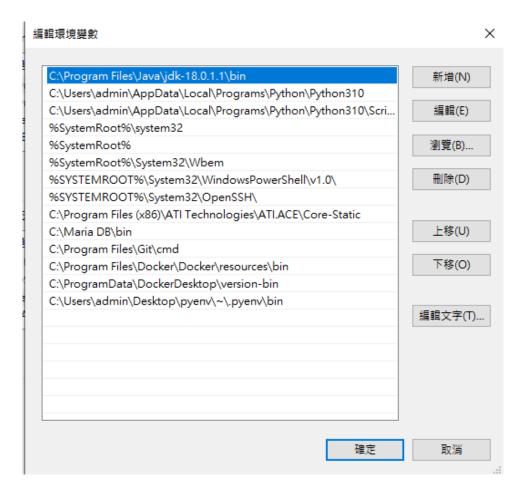
#### 1.下載JDK



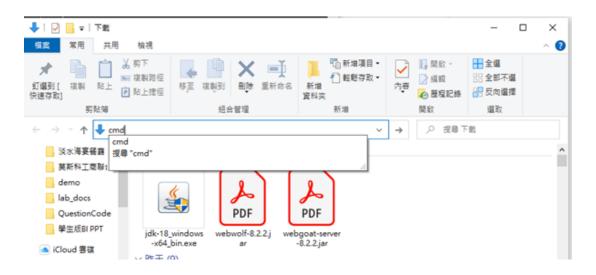
## 2.下載Webgoat



#### 3.設定環境變數

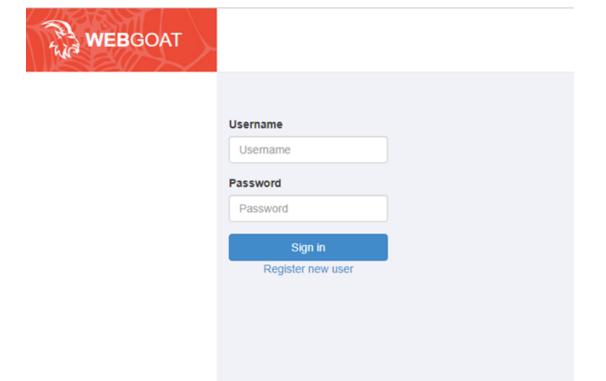


#### 4.打開終端機



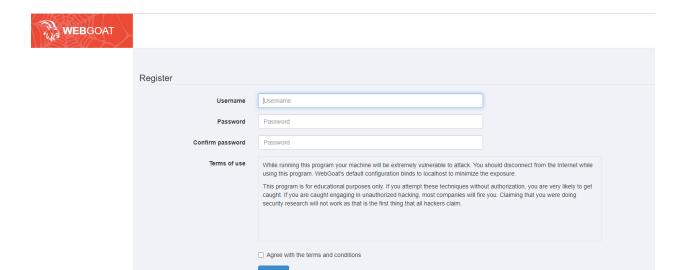
## 5.輸入指令開啟Webgoat

## 6.開啟瀏覽器,輸入<u>http://localhost:8080/WebGoat</u>

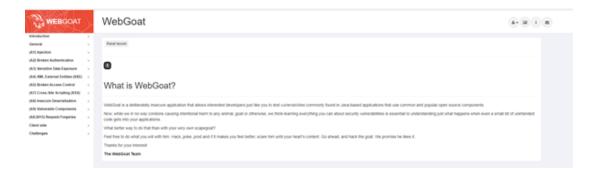


## 二、使用流程

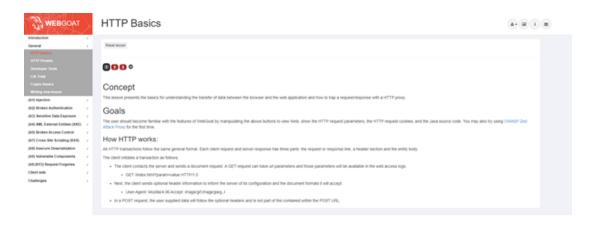
#### 1.註冊帳號



### 2.登入成功!



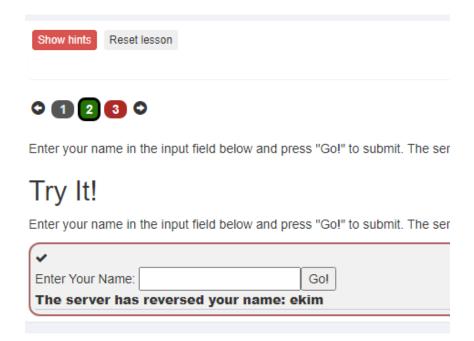
## 3.打開Lession 1



## 4.第二節內容,輸入名字



#### 5.當打開F12後發現是一個POST



#### 6.查驗magic number,先送出之後觀測header

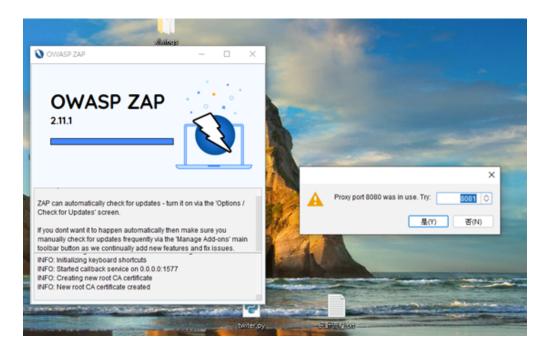


## 三、模擬Proxy

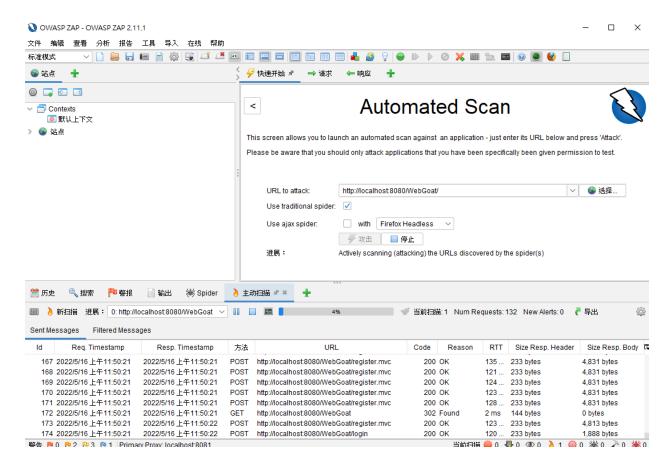
### 1.下載ZAP



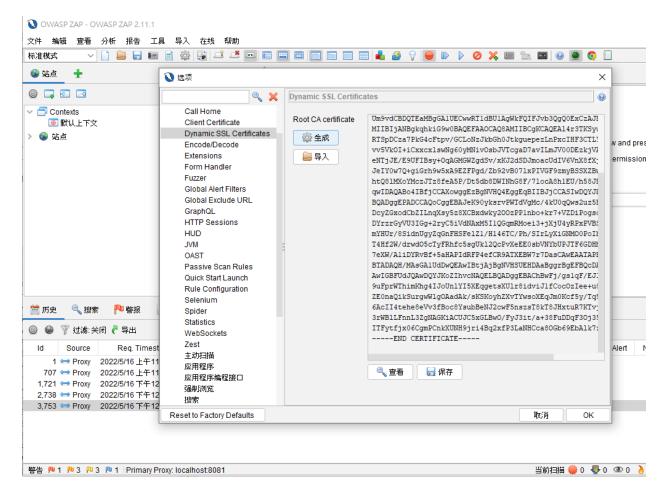
## 2.設定port為8081



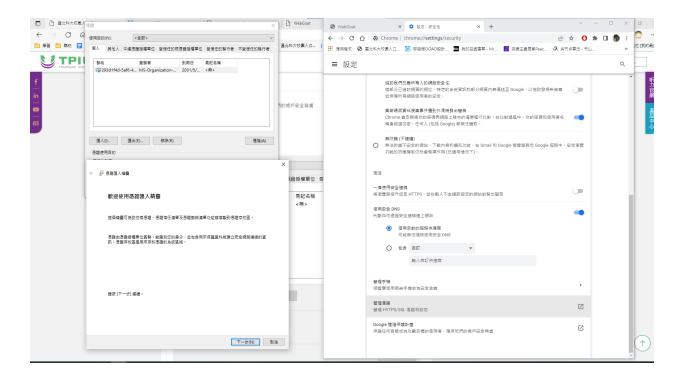
#### 3.打開工具裡的選項



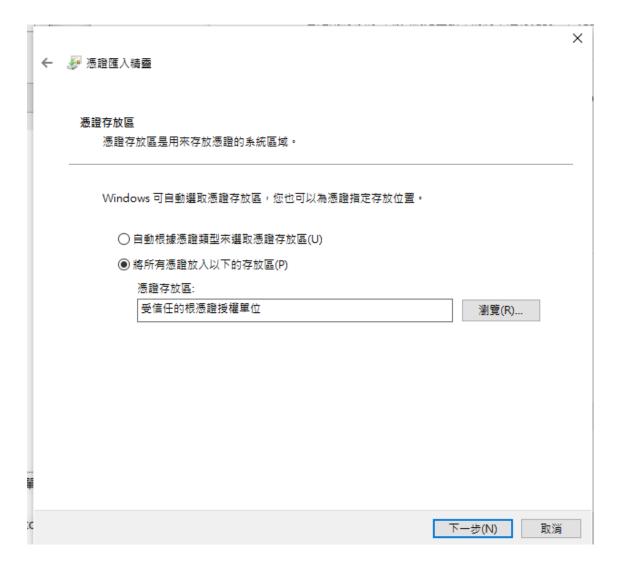
#### 4.生成憑證且儲存



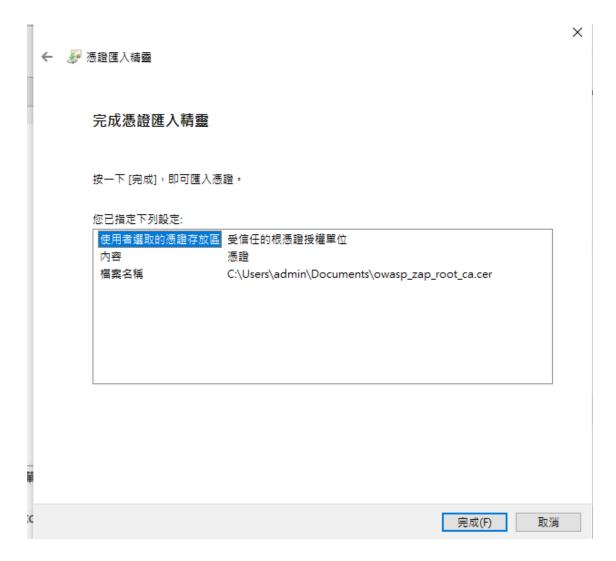
#### 5.打開瀏覽器→設定→安全性→隱私→憑證



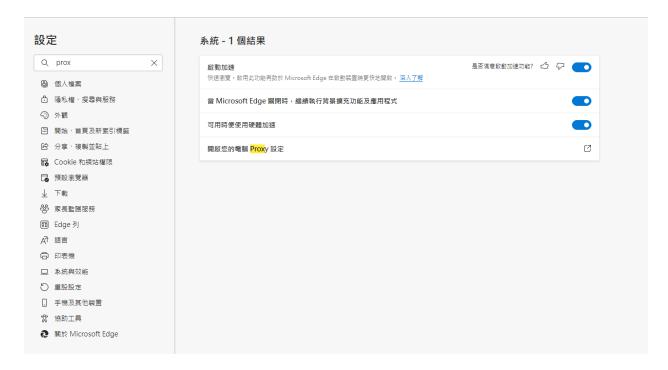
### 6.選擇受信任的根憑證授權單位



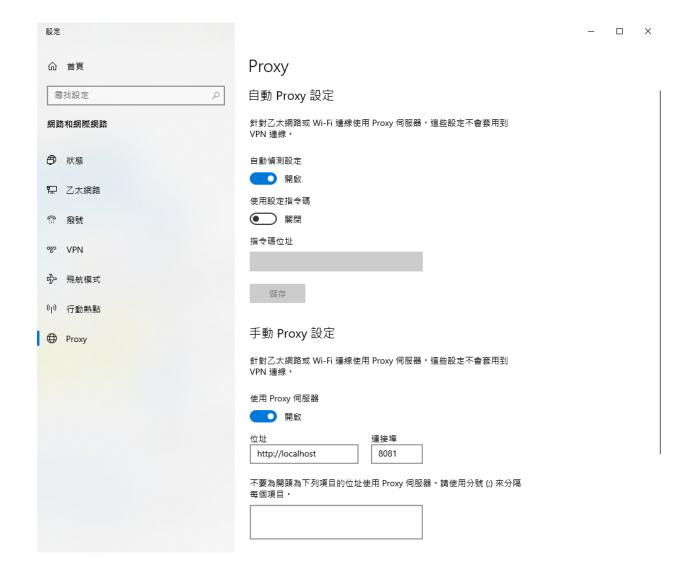
## 7.確認無誤點擊完成



8.設定→查詢→開啟電腦的Proxy設定



## 9.設定為一樣的8081



# 伍、Markdown語法

H1

# 測試文字

# 測試文字

Н3

## 測試文字

## 測試文字

Н6

### 測試文字

#### 測試文字

斜體

\*測試文字\*

測試文字

粗體

\*\*測試文字\*\*

#### 測試文字

刪除線

~測試文字~

測試文字

小區間

`測試文字`

測試文

大區間

/Callout

程式碼

/code

print("Hello World")

代辦	
引用	
>	
▼	
清單	
- 測試文字	
+ 測試文字	
*測試文字	
<ul><li>測試文字</li></ul>	
數字清單	
1.	
1.	
照片	
/image	
字體顏色	
/color	
超連結	
/web	
目錄	
/toc	
![GIHUB](httpts "雙氣")	

## 陸、參考資料

#### Windows PowerShell基本語法及常用命令

Windows 10 WSL GUI介面 - HackMD

[Ubuntu][教學] Linux基本指令#04. 產生空白資料夾、檔案與命名注意事項 - YouTube

<u>鳥哥私房菜 - 第十二章、學習 Shell Scripts (vbird.org)</u>

Bash Shell Script教學與心得 (google.com)

Shell echo命令 | 菜鸟教程 (runoob.com)

使用 WSL 執行 Linux GUI 應用程式 | Microsoft Docs

[<u>Day 13</u>] 來玩WebGoat! 之1:安裝 - iT 邦幫忙::一起幫忙解決難題,拯救 IT 人的一天 (<u>ithome.com.tw</u>)

Markdown - 易編易讀,優雅的寫文吧!

筆記&寫作神器 MarkDown 真希望我學生時期就懂

**Draw Diagrams With Markdown** 

**Math and Academic Functions** 

為什麼許多人都改用 Notion 做為主力筆記軟體?看完這個你就明白了

## 柒、心得

由於WINDOW的關係跟老師介面不太一樣,只好去試著載WSL,安裝其實很順利,但很不清楚怎麼運行BASH,前期光要看清楚別人在幹嘛就很困難了,在做SCRIPT時更是花了很多文章,最後才總結出來,老實說我覺得網路文章真的很不詳細,而且大多都有版本差,一堆小小的差異就得要DUBUG上許久,但感覺研究之後真的清楚很多,相信未來有走程式都一定用的到LINUX,因此絕對是值得去學習的。

至於資安這部分其實真的還是有很多需要去精進的,資安的世界真的是博大精深,雖然說以後不一定會走資安,但至少學幾招在身上自己用也很好,未來也會帶給我們幫助,並且過程中一步一步去實現,克服困難後的成就感,其時我還蠻喜歡的,另外在所有之中尤其是最喜歡 MARKDOWN,後來學會之後真的幾乎都不用DOC了,真是太方便太好用了,配合NOTION使用實在是太讚了,整理筆記、作業甚麼的都可以簡單做出很精美的成品,謝謝老師們