

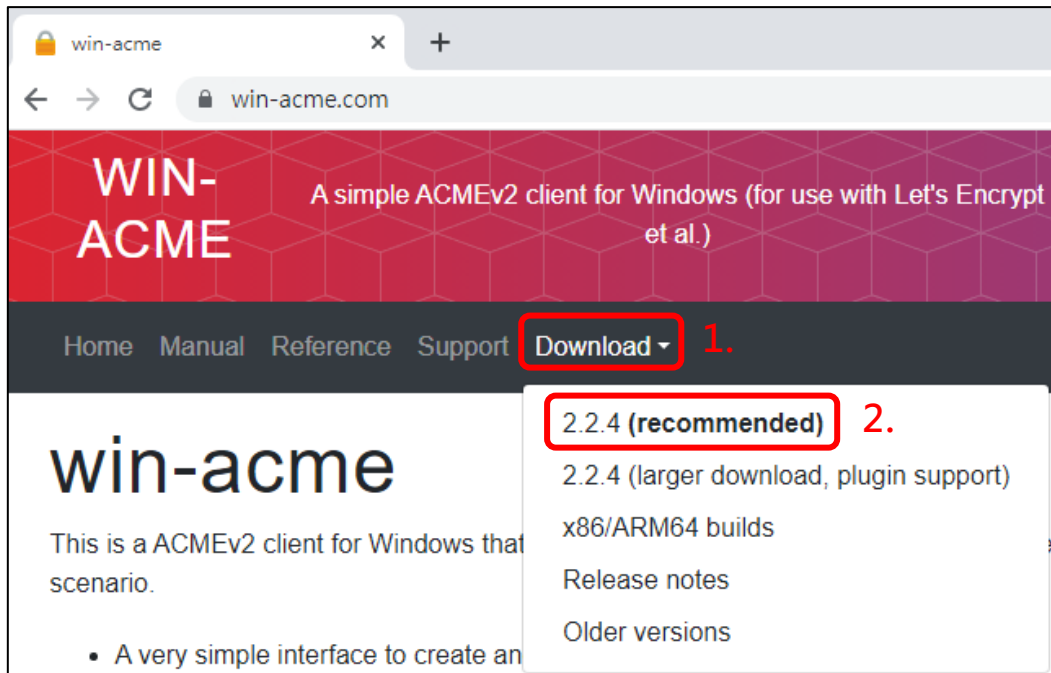
Windows Server IIS 申請 Let's Encrypt SSL 憑證及排程自動更新憑證

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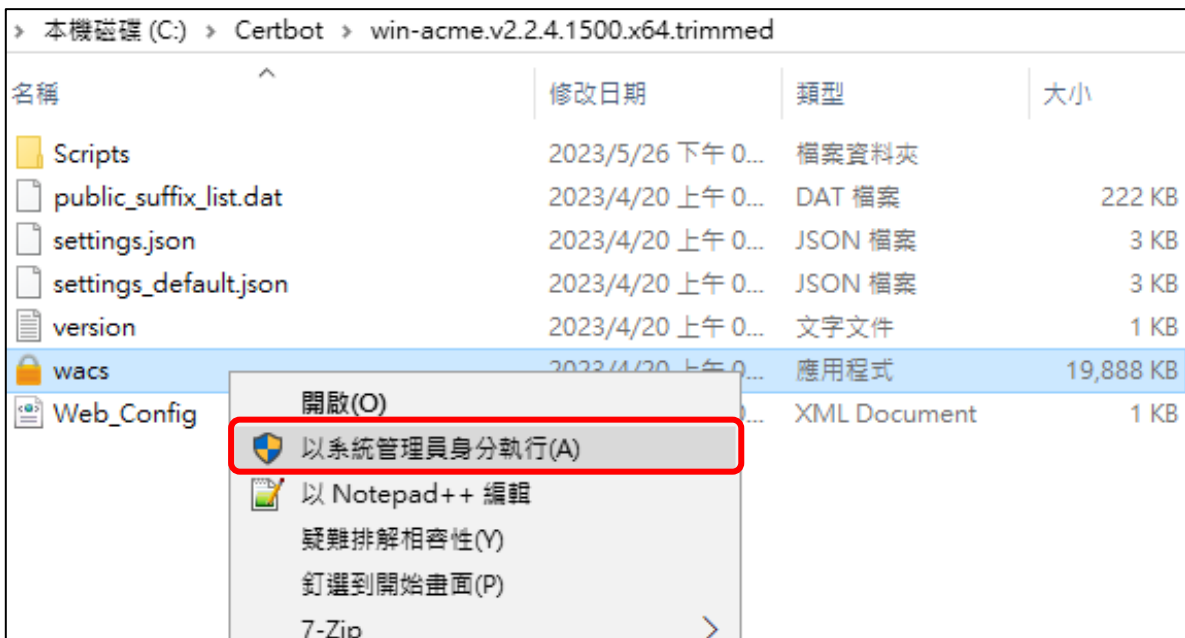
1. WIN-ACME 申請 SSL 憑證

(1) 下載 [WIN-ACME 客戶端](https://www.win-acme.com/) → <https://www.win-acme.com/>



(2) 解壓縮後，wacs 右鍵 → 以系統管理員身分執行

※ 建議 win-acme 資料夾路徑永久存放，安裝好憑證後，若變更資料夾路徑，會導致排程自動更新憑證失效。



(3) 申請 SSL 憑證 · 輸入 N

```
選擇 C:\Certbot\win-acme.v2.2.4.1500.x64.trimmed\wacs.exe
A simple Windows ACMEv2 client (WACS)
Software version 2.2.4.1500 (release, trimmed, standalone, 64-bit)
Connecting to https://acme-v02.api.letsencrypt.org/...
Connection OK!
Scheduled task not configured yet
Please report issues at https://github.com/win-acme/win-acme
N: Create certificate (default settings)
n: Create certificate (full options)
R: Run renewals (0 currently due)
A: Manage renewals (0 total)
O: More options...
Q: Quit
Please choose from the menu: n
```

(4) WIN-ACME 會顯示在 IIS 上已建立的網站 · 輸入要申請憑證的網站編號

```
Running in mode: Interactive, Simple
Please select which website(s) should be scanned for host names. You may
input one or more site identifiers (comma-separated) to filter by those
sites, or alternatively leave the input empty to scan *all* websites.
1: Web Site (1 binding)
Site identifier(s) or <Enter> to choose all: 1_
```

(5) 若只有單一網域輸入 P · 多個網域(含子網域)輸入 A

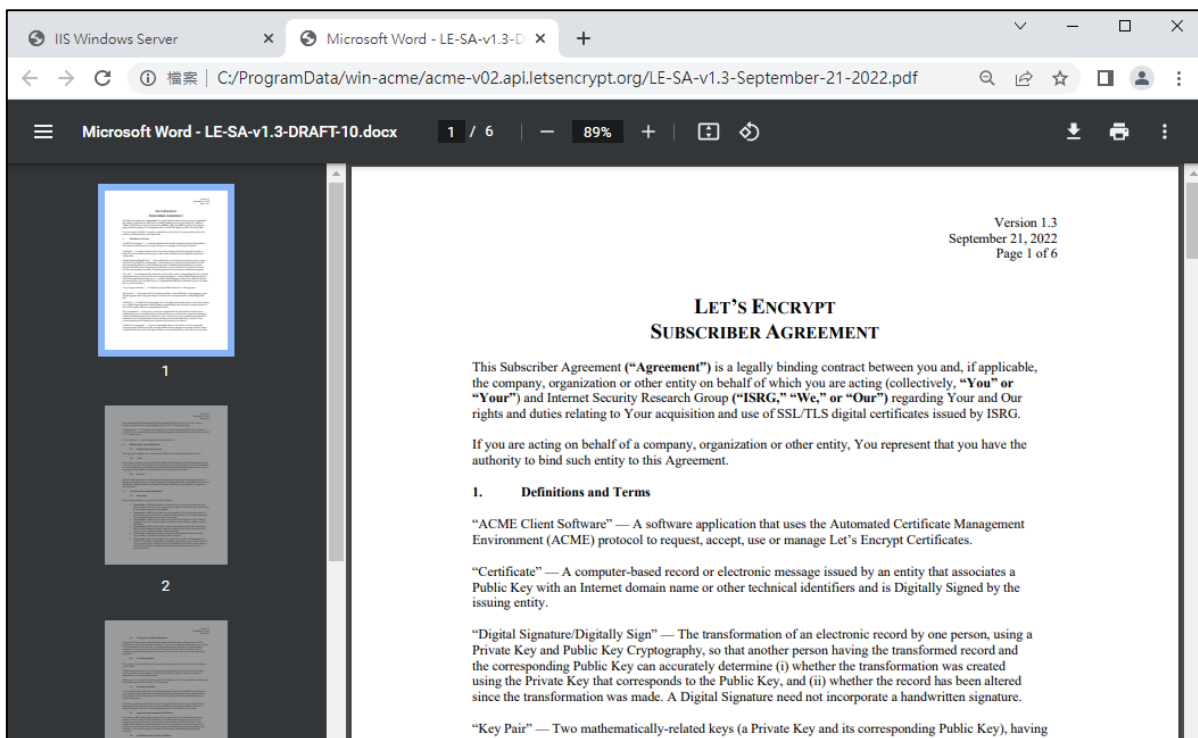
例如：單一網域 yourdomain.nchu.edu.tw · 輸入 P

多網域(含子網域) yourdomain1.nchu.edu.tw、yourdomain2.nchu.edu.tw、
yourdomain3.nchu.edu.tw...等 · 多個網域在同台主機 · 則輸入 A

```
1: freessl.idc.tcrc.edu.tw (Site 1)
Listed above are the bindings found on the selected site(s). By default all
of them will be included, but you may either pick specific ones by typing the
host names or identifiers (comma-separated) or filter them using one of the
options from the menu.
P: Pick bindings based on a search pattern
A: Pick *all* bindings
Binding identifiers(s) or menu option: a_
```

(6) 確認選擇的網域無誤並同意 Let's Encrypt 條款，三項皆輸入 Y 後，會自動開啟 Let's Encrypt 條款 PDF，關閉即可

```
1: freessl.idc.tcrc.edu.tw (Site 1)
Continue with this selection? (y*/n) - yes
Source generated using plugin IIS: freessl.idc.tcrc.edu.tw
Terms of service: C:\ProgramData\win-acme\acme-v02.api.letsencrypt.org\LE-SA-v1.3-September-21-2022.pdf
Open in default application? (y/n*) - yes
Do you agree with the terms? (y*/n) - yes
```



(7) 輸入可以正常收信的 email 後會開始安裝 SSL 憑證，安裝成功會顯示綁定訊息(紅框處)、

新增自動更新憑證排程時間及憑證到期日期(藍框處)，即可輸入 Q 關閉 win-acme 視窗。

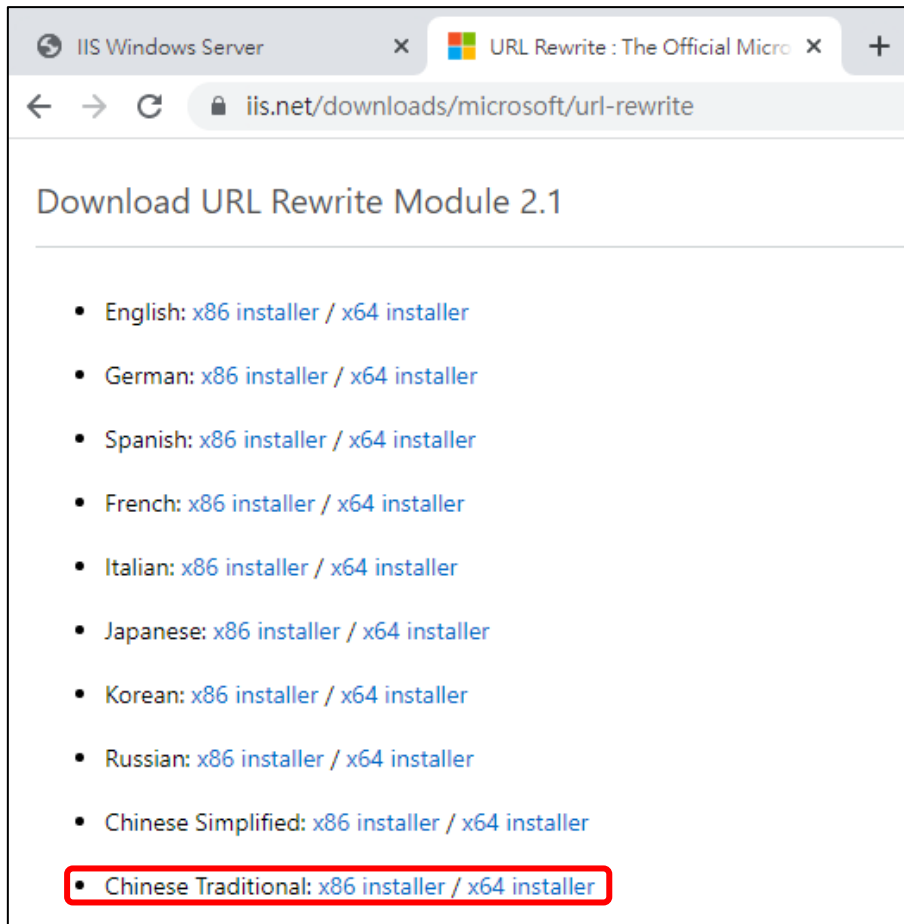
```
C:\win-acme.v2.2.4.1500.x64.trimmed\wacs.exe
Enter email(s) for notifications about problems and abuse (comma-separated): [redacted]@nchu.edu.tw
Plugin IIS generated source freessl.idc.tcrc.edu.tw with 1 identifiers
Plugin Single created 1 order
[freessl.idc.tcrc.edu.tw] Authorizing...
[freessl.idc.tcrc.edu.tw] Authorizing using http-01 validation (SelfHosting)
[freessl.idc.tcrc.edu.tw] Authorization result: valid
Downloading certificate [IIS] Default Web Site, (any host)
Store with CertificateStore...
Installing certificate in the certificate store
Adding certificate [IIS] Default Web Site, (any host) @ 2023/5/24 to store WebHosting
Installing with IIS...
Adding new https binding 140.120.[redacted].[redacted]:443:freessl.idc.tcrc.edu.tw
Committing 1 https binding changes to IIS while updating site 1
Adding Task Scheduler entry with the following settings
- Name win-acme renew (acme-v02.api.letsencrypt.org)
- Path C:\win-acme.v2.2.4.1500.x64.trimmed
- Command wacs.exe --renew --baseuri "https://acme-v02.api.letsencrypt.org/"
- Start at 09:00:00
- Random delay 04:00:00
- Time limit 02:00:00
Adding renewal for [IIS] Default Web Site, (any host)
Next renewal due after 2023/7/18
Certificate [IIS] Default Web Site, (any host) created

N: Create certificate (default settings)
M: Create certificate (full options)
R: Run renewals (0 currently due)
A: Manage renewals (1 total)
O: More options...
Q: Quit

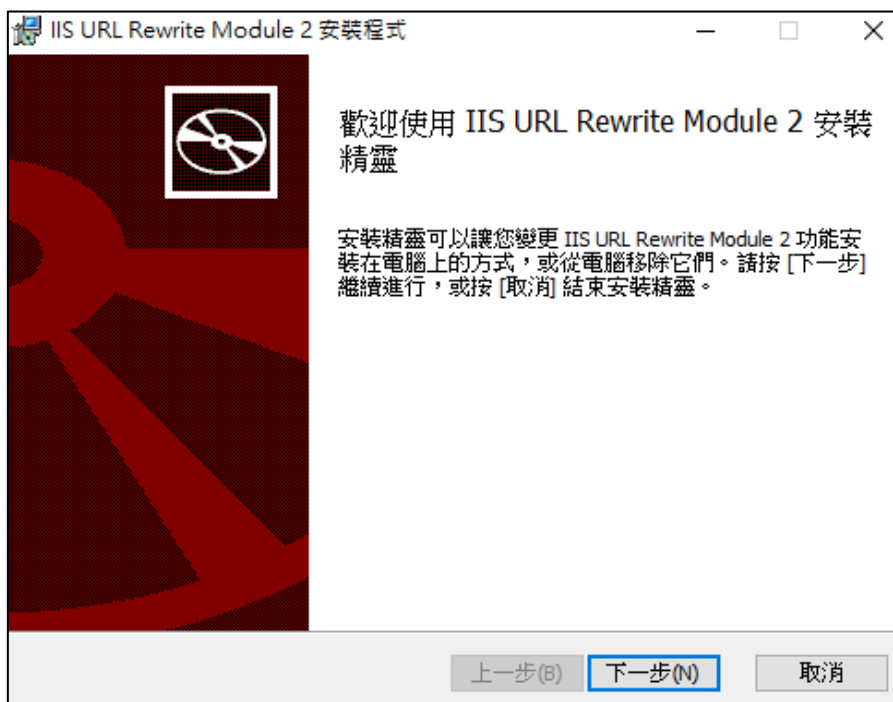
Please choose from the menu: Q
```

2. 設定 HTTP 導向 HTTPS

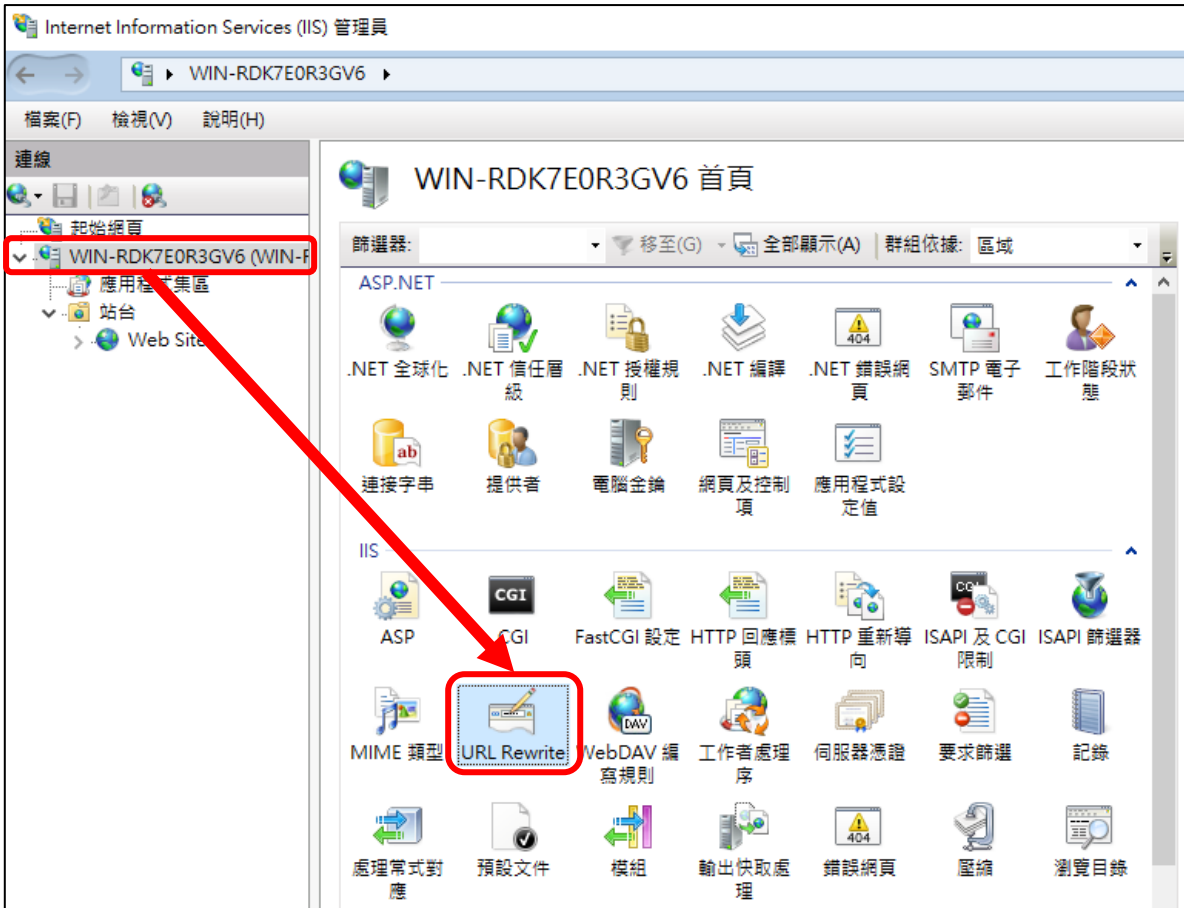
(1) 下載 [IIS URL Rewrite](https://www.iis.net/downloads/microsoft/url-rewrite) → <https://www.iis.net/downloads/microsoft/url-rewrite>



(2) 安裝 IIS URL Rewrite



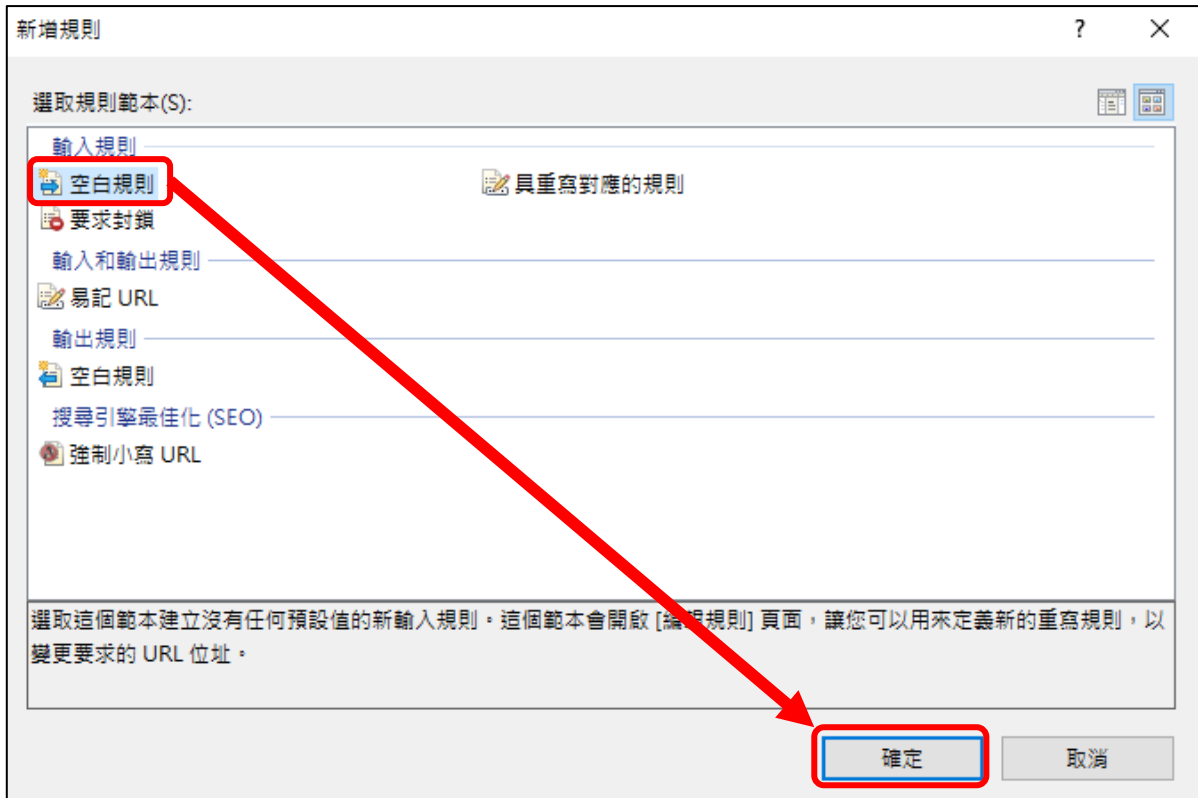
(3) 安裝完須重啟 IIS 才會出現 URL Rewrite 圖示，雙擊進入 URL Rewrite



(4) 點選新增規則



(5) 選擇空白規則

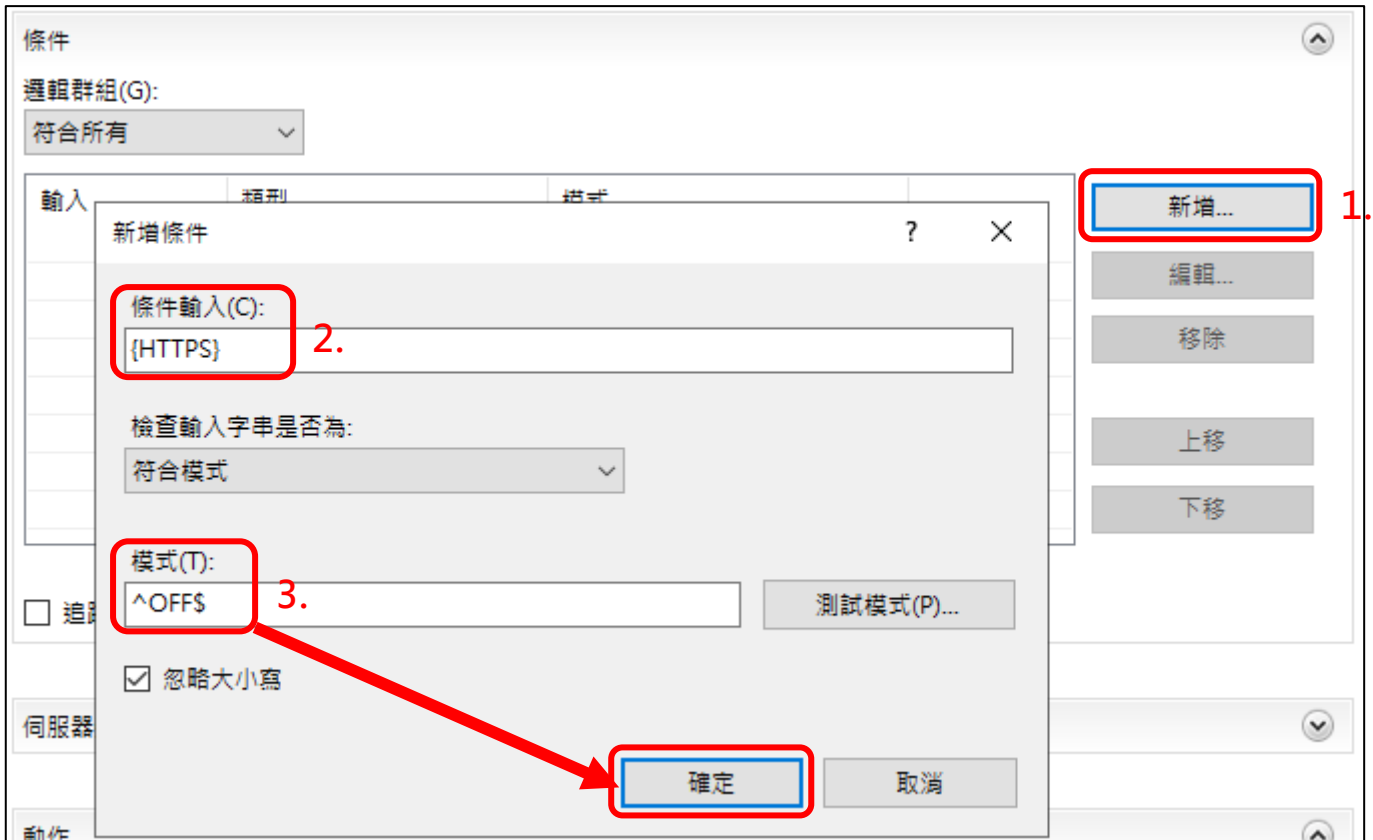


(6) 名稱鍵入 http to https、模式鍵入(.*)



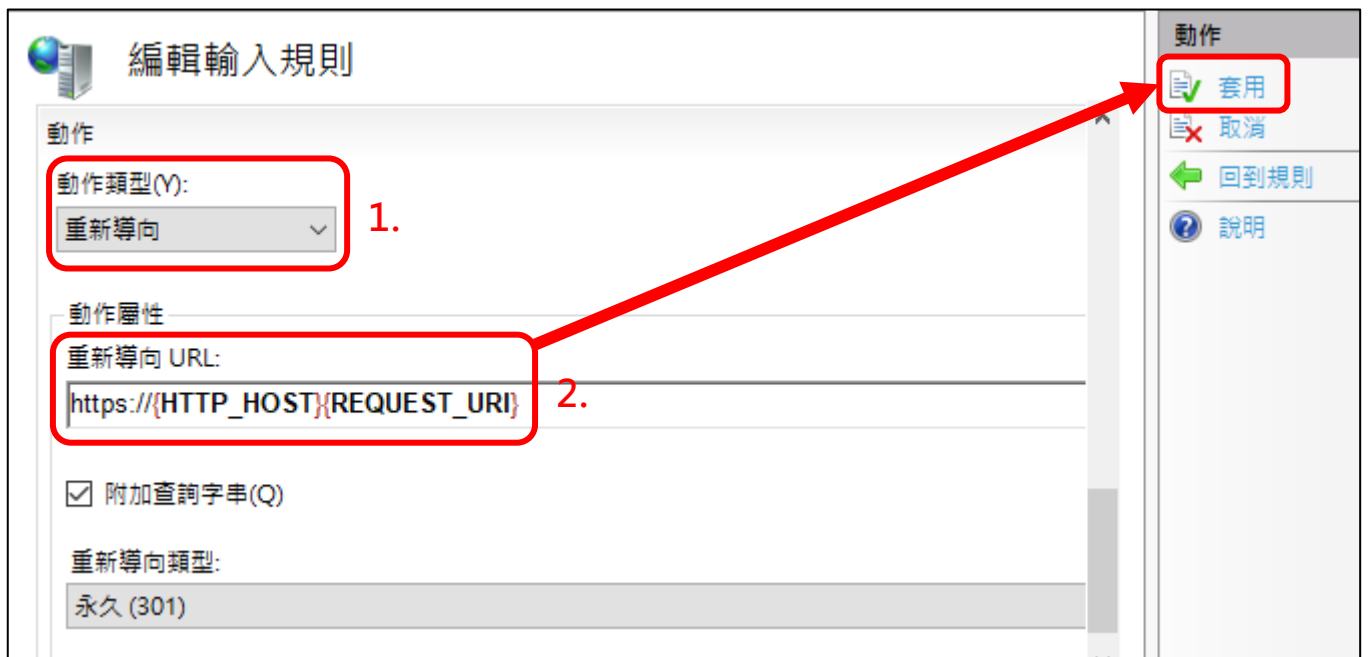
(7) 條件

條件輸入鍵入{HTTPS}、模式鍵入^OFF\$



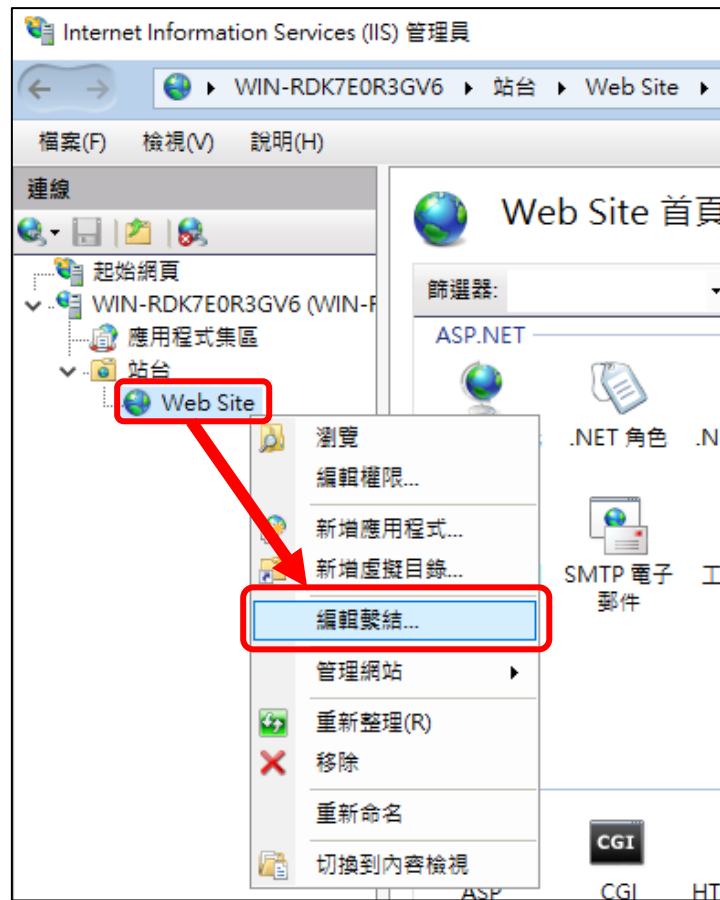
(8) 動作

動作類型選重新導向、重新導向 URL 鍵入 `https://{HTTP_HOST}{REQUEST_URI}`

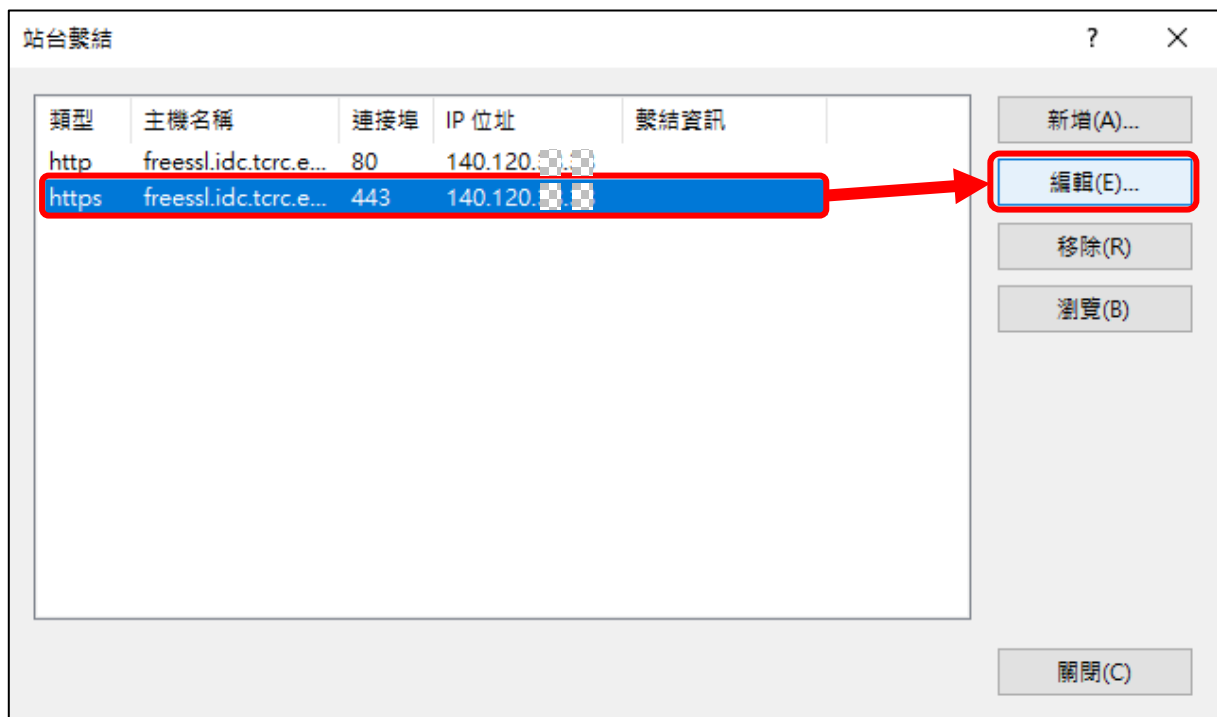


3. 檢視 IIS 上 SSL 憑證資訊

(1) 開啟 IIS，在安裝好 SSL 憑證的網站右鍵 → 編輯繫結



(2) 點選 443port 編輯



(3) 檢視 SSL 憑證 (憑證自申請成功當天開始，90 天有效期)

編輯站台繫結

類型(T): https IP 位址(I): 140.120.30.30 連接埠(O): 443

主機名稱(H): freessl.idc.tcrc.edu.tw

需要伺服器名稱指示(N)

停用 HTTP/2(D)

停用 OCSP 裝訂(S)

SSL 憑證(F): [IIS] Web Site, (any host) @ 2023/5/26

選取(L)... 檢視(V)...

確定 取消

憑證

一般 詳細資料 憑證路徑

憑證資訊

這個憑證的使用目的如下:

- 向遠端電腦證明您的身分
- 確保遠端電腦的識別
- 2.23.140.1.2.1
- 1.3.6.1.4.1.44947.1.1.1

請參照憑證授權單位敘述中的詳細資訊。

發給: freessl.idc.tcrc.edu.tw

簽發者: R3

有效期自 2023/5/26 到 2023/8/24

🔑 這個憑證有一個對應的私密金鑰。

簽發者聲明(S)

確定

4. 檢視自動更新憑證排程

(1) 於開始搜尋「工作排程器」

