

# 校園公共區無線區域網路之 PEAP 設定：以 Ubuntu 為例【文字介面】

(Ubuntu 18.04.3)

★ 以下指令盡量切換成 root 來執行，避免產生錯誤。

1. 安裝 wpa\_supplicant

取得 wpa\_supplicant-2.9

(請至 [https://w1.fi/releases/wpa\\_supplicant-2.9.tar.gz](https://w1.fi/releases/wpa_supplicant-2.9.tar.gz) 下載)

2. 設定 wpa\_supplicant (/etc/wpa\_supplicant/wpa\_supplicant.conf)

將下列這段語法加入：

```
network={
    ssid="nthupeap"
    key_mgmt=WPA-EAP
    eap=PEAP
    identity="xxxxxxx@wlan.nthu.edu.tw"
    password="xxxxxxx"
    phase1="peaplabel=0"
    phase2="auth=MSCHAPV2"
    priority=10
}
```

3. 啟動 wpa\_supplicant

→查詢網卡名稱，如資料夾名稱為 wlp2s0。

```
#ls /sys/class/net/
```

→確認網卡可用狀態，blocked 狀態須皆為 no。

```
#rfkill list
```

```
0: phy0: Wireless LAN
```

```
Soft blocked: no
```

```
Hard blocked: no
```

→須停止 NetworkManager 才可透過 wpa\_supplicant 進行連線。-B 指定背景程式運行；-i 指定你的網卡名；-c 指定配置文件。

```
#sudo systemctl stop NetworkManager
```

```
#sudo wpa_supplicant -B -c /etc/wpa_supplicant/wpa_supplicant.conf -i wlp2s0
```

→查看網卡連線狀態，如顯示連線 SSID 為 nthupeap。

```
#iwconfig
```

```
wlp2s0 IEEE 802.11 ESSID:"nthupeap"
Mode:Managed Frequency:2.462 GHz Access Point: AC:A3:1E:CE:4A:C1
Bit Rate=1 Mb/s Tx-Power=15 dBm
Retry short limit:7 RTS thr:off Fragment thr:off
Power Management:off
Link Quality=59/70 Signal level=-51 dBm
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
Tx excessive retries:0 Invalid misc:6 Missed beacon:0
```

4. 重新通過 DHCP 獲取 IP 地址

```
#sudo dhclient wlp2s0
```

```
#ip addr show wlp2s0
```

```
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP
```

```
group default qlen 1000
```

```
link/ether 08:xx:9x:xx:3x:a8 brd ff:ff:ff:ff:ff
```

```
inet 192.168.200.244/24 brd 192.168.200.255 scope global wlp2s0
```

```
valid_lft forever preferred_lft forever
```

參考資料：

➤ [Connect to Wi-Fi From Terminal on Ubuntu 18.04/19.10 with WPA Supplicant](#)