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1. Wi-Fi Authentication

1. WPA-Personal 不需要額外架設 802.1X 認證伺服器,且所有想要連線的使用者共用同一組密碼(密碼存在 Wi-Fi 路由器裡)

WPA-Enterprise 需要另外架設認證伺服器,且使用者想連入該網路時必須要登入該網路的認證伺服器取得認證才行

Ref: https://zh.wikipedia.org/wiki/WPA

https://www.tp-link.com/us/FAQ-500.html

2. csie-5g: WPA2 企業級,



csie: WPA2 企業級



2. Wi-Fi Encryption

1. WEP: stream cipher RC4 (40 bit key 加上 24-bit initialization vector)
WPA: stream cipher RC4 (128 bit key 加上 48-bit initialization vector) 加上
TKIP (Temporal Key Integrity Protocol)

WPA2: CCMP (CTR mode with CBC-MAC Protocol) based on Advanced Encryption Standard (AES)

Ref: https://en.wikipedia.org/wiki/Wi-Fi Protected Access

2. csie-5g: WPA2 企業級



csie: WPA2 企業級



3. WPA3

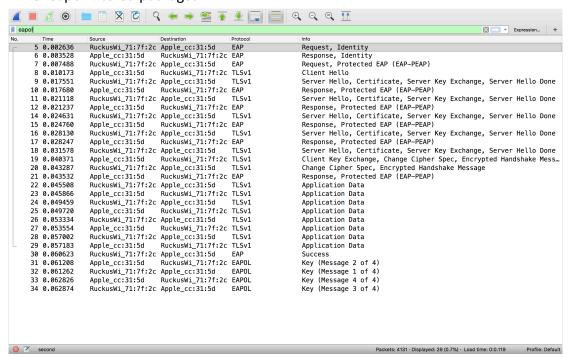
- 1. 192-bit 加密
- 2. 所有 client 與 AP 之間的資料交換都會加密
- 3. 實作 Simultaneous Authentication of Equals 增加 handshake 安全性

ref: https://www.welivesecurity.com/2018/02/09/will-wpa3-improve-wifi-security/

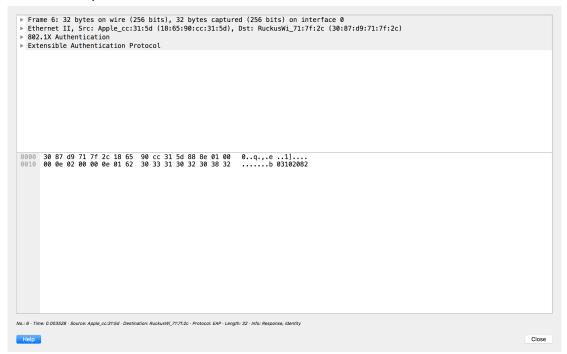
https://venturebeat.com/2018/05/19/what-is-wpa3-why-does-it-matter-and-when-can-you-expect-it/

4. Seeing is Believing

3. eapol filtered packages:



4. identity info:



5.

