

Be a Smart Netizen – The Importance of Security Awareness

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Agenda

- 1. Opening
 - HKCERT
 - Sharing WhatsApp account compromise
 - Security Awareness
- 2. Recent attacks and incidents
 - **Supply Chain Attack**
 - Data protection
- 3. Trends

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- **G** Statistics
- Observations
- **Q** & A

Cybersecurity - **HKCERT**

coordination of cybersecurity incident response for local enterprises and Internet Users.









Security Alert Monitoring and Early Warning

Report and Response

03

02

Publication of Security Guidelines and Information



Promotion of Information Security Awareness

HKCERT acts as

point of contact for cross-border cyber security incidents for Hong Kong



Sharing – WhatsApp account compromise

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WhatsApp account compromise

Traditionally, the attacker tried to impersonate one of the contacts of victim to lure him/her to provide the WhatsApp verification code.

My account has been locked. Can you forward the SMS verification code to me? 下午2:47

😀 輸入訊息

WhatsApp 驗證碼

您可以點擊連結驗證電話: <u>v.whatsapp.com/</u>

The victim's WhatsApp account was compromised even he/she did not do so. Why?

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WhatsApp account compromise

- The attacker obtained the WhatsApp verification code through victim's voicemail:
 - 1. The attacker tried to "verify your number" through "Call Me"
 - The voice verification code would be recorded by the victim's voicemail after the call was declined/ in vain).
 - 3. The attacker tries to login the victim's voicemail to get the voice verification code.

Root cause : Default voicemail password

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WhatsApp account compromise

- Any security weakness can be an entrance for an attacker
- Strong Security Awareness can help you to avoid becoming a victim







Security Awareness

Awareness

- "The state of being conscious of something." (source: Wikipedia)
- Real life examples: Health, Road Safety
- Security Awareness
- Understand the importance of security
- Understand the consequence of neglecting security







Eating an poisoned apple is dangerous \bullet









Supply Chain Attack

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• A supplier supplied unofficial goods.



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 In general, a trusted retailer provides better quality control on their goods.

 Select a trusted source to buy/get the hardware and software.

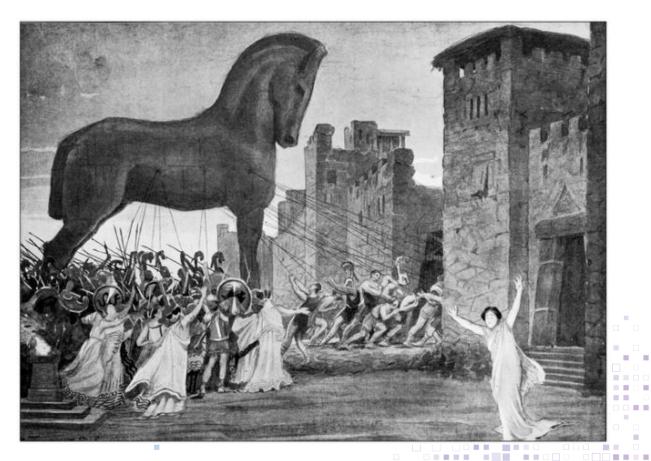






• Taking an unattended horse home is risky.







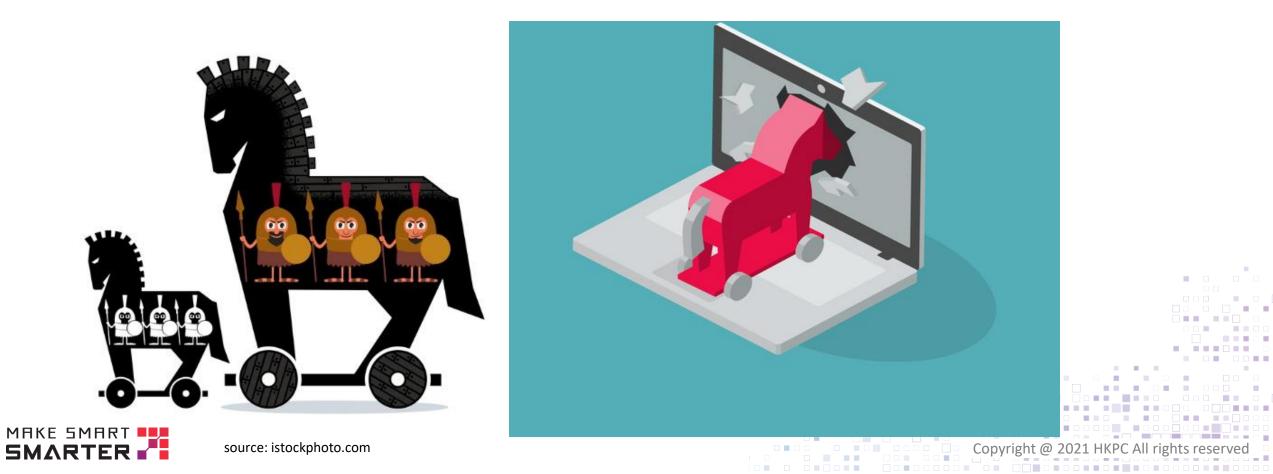
source: istockphoto.com

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 If someone posted a Google drive link to share a Windows update package, should you try it ?





- Only use Official channels to update the software
- Follow latest Threat Intelligence



Hong Kong Computer Emergency Response Team Coordination Centre



hkcert@hkcert.org

https://www.hkcert.org/

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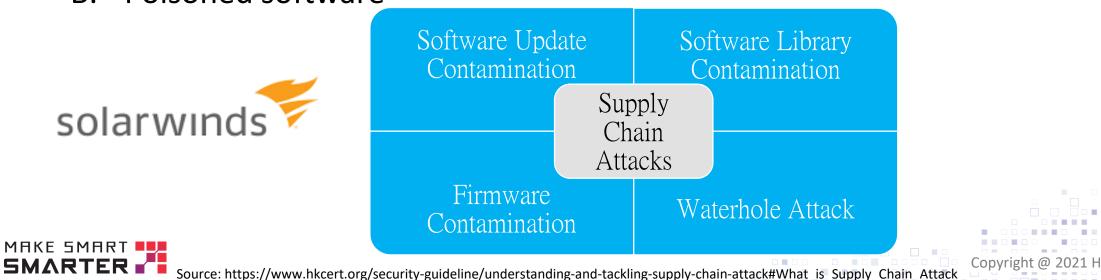


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- Leveraging on our trust on our supply chain partners to bypass traditional defenses.
- Sufficient Security Awareness may help to prevent it.
- Examples:
- A. Unofficial software update
- B. Poisoned software







Users information leaked on a hacking forum

HKCERT 4月4日下午9:17 · ③

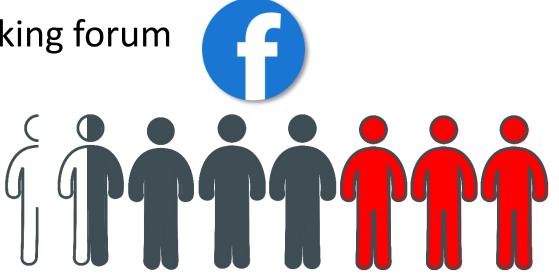
【3百萬個香港Facebook帳戶資料外洩】

黑客剛剛公開咗全球共5億3千3百萬個Facebook帳戶資料,包括手機號碼、用戶名稱、性別及工作地點等,當中有近3百萬個係屬於香港帳戶,即係話大家嘅手機號碼即使 set 左不公開,但宜家都被黑客偷哂出嚟任人睇。

黑客其實早於2019年已偷咗相關資料,販賣完結後先喺呢兩日對外公開,其他罪犯可能利用資料進行新一波釣魚詐騙,Facebook 帳戶被入 侵還可能影響其他經Facebook 登入的服務。HKCERT提醒大家提防詐騙 電話,sms/WhatsApp等短訊及帳戶被盗。

請緊記六招應對黑客:

- 1. 提防利用個人資料進行嘅釣魚詐騙電話及短訊
- 2. 切勿點擊可疑電郵、短信、連結或附件
- 3. 更改帳戶密碼及啟用雙重認證,以減低密碼被盜影響
- 4. 定期檢閱帳戶有否可疑的登入紀錄
- 5. 檢查及移除不再需要使用 Facebook 登入的網上服務
- 6. 參閱網絡帳戶的私穩設定,盡量減少個人資料的公開程度





Estimated Population in Hong Kong Approx. 7.47M (by end of 2020) – by Census & Statistics Dept.





Estimated Affected Facebook Users in Hong Kong Approx. **3M** affected users



Phishing attacks are common

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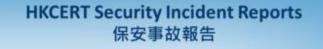




Statistics

HKCERT Security Incident Reports 2020

Phishing Cases (YoY)



Others 其他 Defacement 5% 網站達改 <1% DDoS 攻撃 1% Total 總數 Malware Botnet 愿意軟件 8,346 着屍網絡 2% 50% 12%

Major Security Incidents 主要保安事故

	2019	2020	Change 變化
Botnet 殭屍網絡	4,922	4,154	16%
Phishing 網絡釣魚	2,587	3,483	1 35%
Malware 惡意軟件	1,219	181	\$85%

Ransomware mainly targets the enterprises, causing a drop of personal malware cases 勒索軟件主要以企業為目標,導致個人愿意軟件事故報告減少



問。日報新聞 揭頁版 専欄 Popnews 娛樂影視 財經網 Headlife 馬經網 Blogcity

花旗銀行發現偽冒電郵 籲公眾提高警覺

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資料圖片

香港金融管理局呼籲市民提高警覺,留意一個偽冒花旗銀行發出的電郵,電郵內附連結,該網站會要求輸入信用卡資料,有關銀行已向金管局匯報事件。



網絡釣魚電子郵件的電子郵件主題為「Citi ThankYou : CELEBRATE THIS CHRISTMAS WITH US

Source: https://hd.stheadline.com/news/healtime/hk/19695697%E5%8D%B3%E6%99%82-%E6%B8%AF%E8%81%9E-%E8%8A%B1%E6%97%97%E9%8A%80%E8%A1%8C%E7%99%BC%E7%8F%BE%E5%81%BD%E5%86%92%E9%9B%BB%E9%83%B5-%E7%B1%B2%E5%85%AC%E7%9C%BE%E6%8F%90%E9%AB

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Source: https://hk.on.cc/hk/bkn/cnt/news/20210228/bkn-20210228023650706-0228_00822_001.html

明時新聞 日報新聞 揭頁版 専欄 Popnews 娛樂影視 財經網 Headlife 馬經網 Blogcity

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Observations



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Source: https://hd.stheadline.com/news/realtime/hk/20130487%E5%80%B3%E6%99%82-%E6%B8%AF%E8%81%9E-%E6%98%9F%E5%B1%95%E9%8A%80%E8%A1%8C%E7%99%BC%E7%8F%BE%E7%B6%B2%E7%B5%A1%E9%87%A3%E9%AD%9A%E7%9F%AD%E8%A8%8A-



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渣打銀行就「網絡釣魚」短訊及偽冒網站提醒客戶,表示發現一個偽冒由渣打發出的短 訊,提示客戶點擊至偽冒銀行的網站,相關網站要求客戶輸入網上銀行用戶名稱及密 碼。

渣打提醒公眾有關網站和短訊興該行無關,渣打不會在短訊中包涵任何要求客戶提供登 入資訊或個人資料的網頁連結。偽冒網站會以不同域名出現,部分網址或與有關所列的 網址在字母、數字或符號上有些微差別,以誤導公眾。



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Phishing attacks can be distributed through different channels





MI5 warns of spies using LinkedIn to trick staff into spilling secrets





Spies are using fake profiles to steal classified information, according to the counter-intelligence agency MIS

At least 10,000 UK nationals have been approached by fake profiles linked to hostile states, on the professional social network LinkedIn, over the past five years, according to MI5.

It warned users who had accepted such connection requests might have then been lured into sharing secrets.

Source: https://www.bbc.com/news/technology-56812746

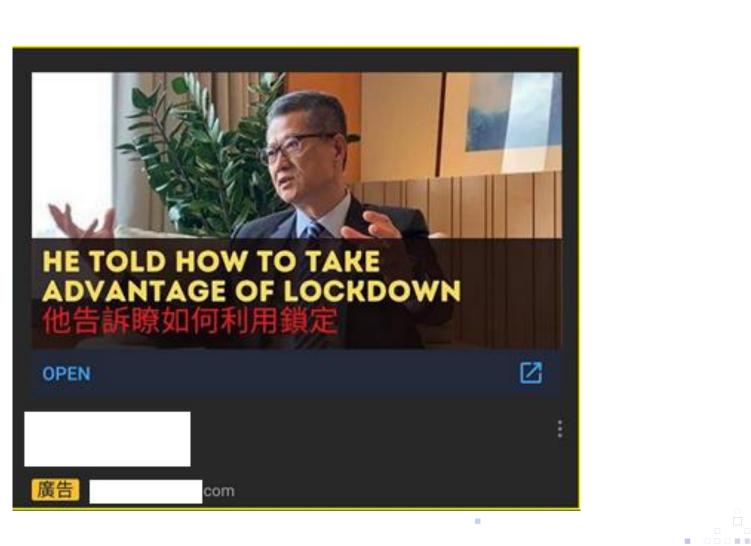








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Source:



https://hk.news.yahoo.com/%E5%8C%AF%E8%B1%90%E5%B0%9A%E7%8E%89%E5%A7%94%E9%83%AD%E5%AF%8C%E5%9F%8E%E7%82%BA E5%93%81%E7%89%8C%E5%A4%A7%E4%BD%BF-

MAKE 5MART %E6%88%AA%E8%87%B3%E7%AC%AC%E4%B8%89%E5%AD%A3%E5%AE%A2%E6%88%B6%E4%BA%BA%E6%95%B8%E6%AF%94%E5%8E%BB%E5 Copyright @ 2021 **SMARTER *** %B9%B4%E5%BA%95%E5%8D%87%E8%BF%918-070449966.html







Video Time 釣魚攻撃要小心不明電郵咪亂開 https://www.ach?v=awk7LP05



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Key Points (Video)

- Think before you act
- No free lunch
- Protect your sensitive & personal information
- Beware of information from different channels







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• Strong Security Awareness can help you to avoid becoming a victim

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Q & A











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