MOBILE SECURITY STARTS FROM ME

流動資訊保安 由我做起

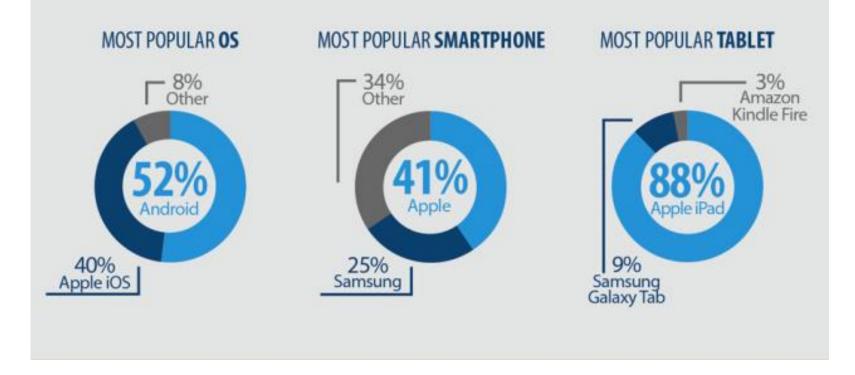
RICKY CHEUNG





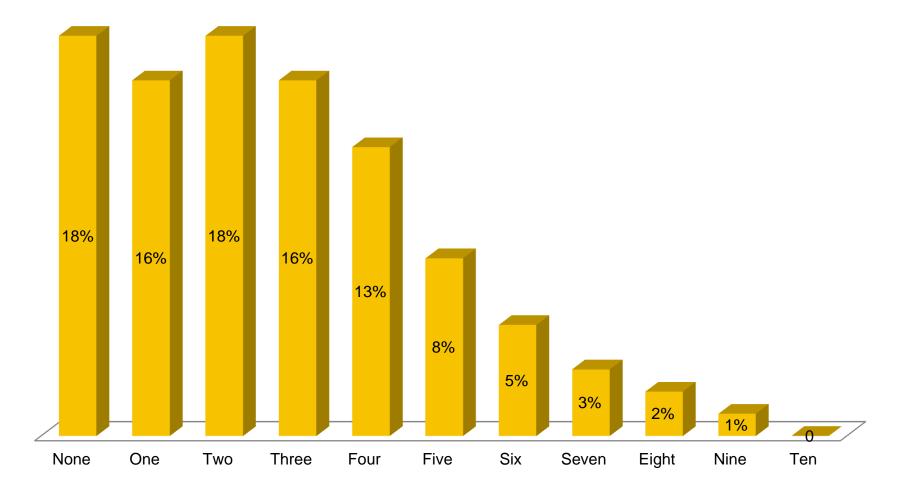
DEVICES

MOBILE MARKET SHARE



Source http://www.consumerbarometer.com/en/, Search Engine Journal

NUMBER OF MOBILE DEVICES (HONG KONG)







WHICH DEVICES DO PEOPLE USE?

Mobile Phone				
				95%
Smartphone				
			74%	
Computer				
		61%		
Tablet				
	34%			
Internet-enabled TV				
20%				
MP3 player				
16%				
Handheld gaming device				
11%				
eReader				
5%				

Source http://www.consumerbarometer.com/en/

資訊保安- INFORMATION SECURITY

Contacts Calendar

Video

Photos

Email

Мар

Music

Watch



Banking Instant messaging Social network Web browsing **Online shopping** Healthcare Info Game Data at rest

SLEEPY?

iOS users:

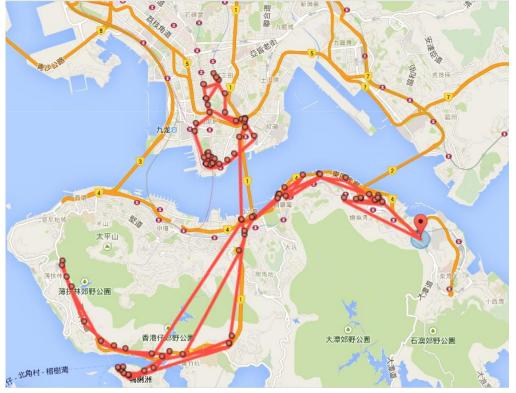
Settings → Privacy → Loca → Frequent Locations 設定 →私隱 →定位服務 → 系

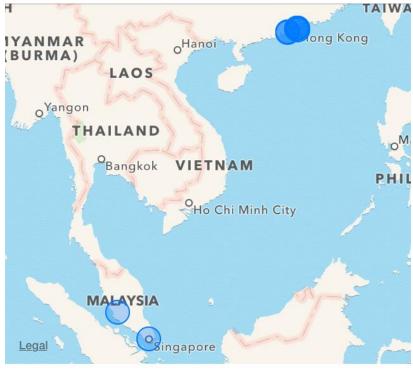
Android users:

https://maps.google.com/lc



???? OR !!!!!





Kuala Lumpur 4 visits recorded since 7 October, 2014

Tai Po Road - Sha Tin 3 visits recorded since 5 October, 2014

Havelock Road 3 visits recorded since 8 October, 2014

Avenida Dr. Sun Yat-Sen 2 visits recorded since 25 October, 2014

On Chiu Street 2 visits recorded since 24 October, 2014

GRANDMA AND GRANDSON



Forgot passcode

Change passcode

setup a passcode (4 digit code)

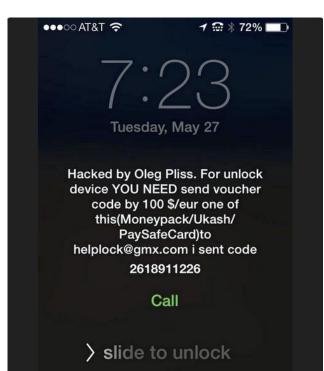


ICLOUD / GOOGLE FIND MY PHONE

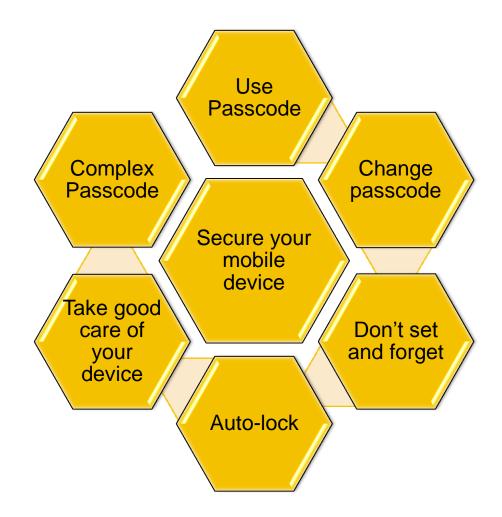
Ransom-ware

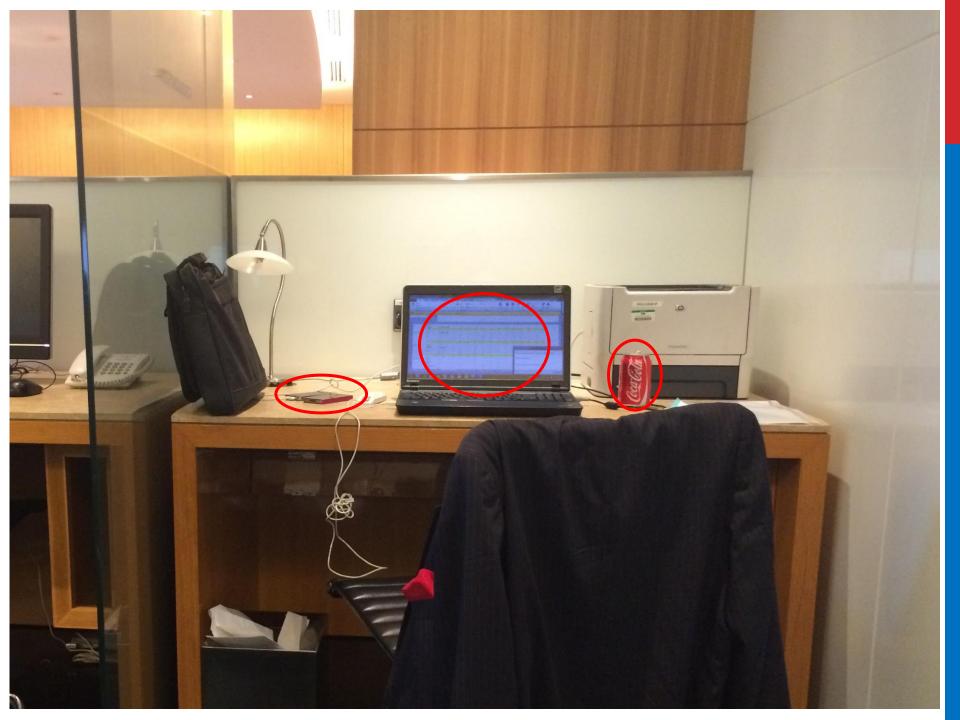
Lock your phone and ask for money

Take advantage of weak password in the icloud / Android find my phone



LESSONS LEARNED







Owns a Smartphone





MY SON













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APPLICATION PERMISSIONS

1 0

😤 📶 🧧 12:11 😴 Dropsync

Permissions

data

This application can access the following on your phone:

- Your personal information Add or modify calendar events and send emails to guests, Read calendar events, read contact data, write contact
- Services that cost you money

directly call phone numbers, send SMS messages

- Your messages edit SMS or MMS, read SMS or MMS
- Your location coarse (network-based) location, fine (GPS) location
- Network communication create Bluetooth connections, full Internet access
- Storage modify/delete USB storage contents
- / Hardware controls

alerts, modify global system settings, prevent phone from sleeping, retrieve running applications, set time zone, write sync settings 1 0

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Hide

- Default allows the application to ask Tasker to run both user-defined and its own tasks
- Your personal information set alarm in alarm clock
- Network communication Google Play license check, view network state, view Wi-Fi state
- Hardware controls control vibrator
- System tools automatically start at boot, End background processes, expand/collapse status bar, read sync settings, Set wallpaper



Do you want to install this application?

Allow this application to:

- Your personal information read contact data, write contact data
- Network communication full Internet access
- Your accounts Google mail, manage the accounts list, use the authentication credentials of an account
- Storage modify/delete USB storage contents
- System tools

prevent phone from sleeping, write subscribed feeds, write sync settings

Show all		~
Cancel		Install
\bigcirc	\bigtriangleup	

Set	tings Privacy						
1	Location Services	Priv	vacy Microp	ohone			
	Contacts	FOSCAM	Foscam View	er			
	Calendars	8	Google	< Priv	vacy	Contacts	
	Reminders	8	Google Maps	;;;	BBM		
	Photos		YouTube	M	Gmail		
*	Bluetooth Sharing		Mobility	8	Google	e Maps	\bigcirc
P	Microphone		Bad Piggies	C	Mobilit	У	
Ó	Camera	8	Skype	8	Skype		
	Health	1	WeChat	1	WeCha	at	\bigcirc
	HomeKit		Viber		Viber		
	Motion Activity	\bigcirc	ProCam	Уаносу	Yahoo	Mail	\bigcirc

SMS / IM / FACEBOOK / QR CODE / NFC

Verify the authenticity of the message or the code / the NFC

Especially when money is involved

Ways to infect malware



Win \$500,000 Enter Lucky draw at http://i.am.hacker.server



MASQUE ATTACK - IOS

Free iPhone 6 for you. Enter Lucky draw at http://hacker.server/installap

example.com would like to
install "Email Client"CancelInstall



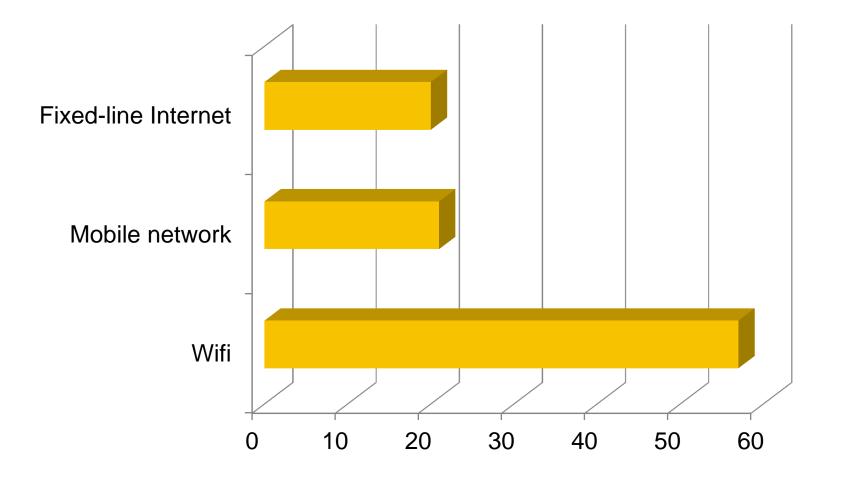


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LESSONS LEARNED



ALWAYS CONNECTED, HOW?



HOTSPOT - WIFI		-Y5ZONE-	? (i)
		- hgc on air -	∻ (i)
	THE BODY SHOP	KBN Wi-Fi-	∻ (i)
Fake SSID?		CW Free	∻ (i)
Trusted?	Love Your Body™ Club Digital Members)perkd ≔ KBN Wi-Fi -	∻ (i)
Stores. Download your digital membership now!	enjoy free WiFi in all	LOVE O	∻ (i)
	Download your digital	Club (Wi-Fi	₽ ╤ (i)
		YOUR BODY	∻ (i)
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	Download >		∻ (i)
	Log-in to Wi-Fi	CC	∻ (i)
		<u></u>	

GOV WIFI



RISKS OF USING A OPEN / ROGUE WIFI

é 🏺 www



Bring Your Own Device (BYOD)

Employee bring their devices for work

More efficient and

May be cost savings

BUT



CORPORATE DATA

Contacts Calendar

Video

Photos

Email

Мар

Music

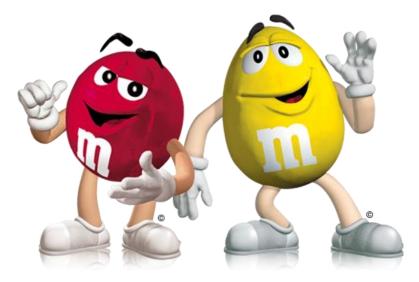
Watch



Banking Instant messaging Social network Web browsing **Online shopping** Healthcare Info Game

Data at rest

ENTERPRISE MOBILITY MANAGEMENT (EMM)



MDM (Mobile Device Management)

 Manage device – location tracking / remote wipe / enable data encryption / VPN connection

MAM (Mobile Application Management)

Secure Application Delivery – Enterprise AppStore

MSM (Mobile Service Management)

Manage mobile services – data usage / performance

PREVENTION IS BETTER THAN CURE

Do casual browsing when using Wii-Fi

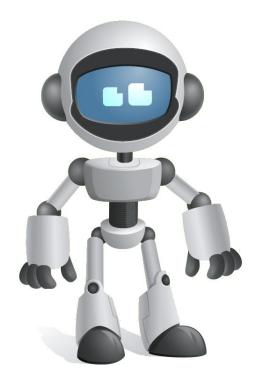
Secure your connection with VPN (Virtual Private Network) or

Use application with End-to-end encryption

Deploy EMM solutions

- Containerized Personal and Corporate data
- Secure corporate data with encryption

Corporate Cloud storage







Update your devices only didn't help.

UPDATE AND UPGRADE YOURSELF

殷勤籌劃的足致豐裕,行事急躁的都必缺 乏。 **箴言21:5**