



Security Awareness

For General User



By Mahutthawat Raksakiettsak
System & Network Specialist

Topic for today

- Intro to Cyber threats
- You Are A Target
- Social Engineering
- System Security
- Basic Identification
- E-mail & Social login
- Enable 2fa
- 10 วิธีการ shopping online อย่างปลอดภัย



Cyber crime statistics

Average monetary cost to victim of cyber crime :

\$128



Email scams sent daily :

75 MILLION



Daily victims of scam emails :

2,000



Percent of **American** who have experienced cyber crime :

73%



Percentage of **Americans** who believe that cyber-criminals will not be brought to justice :

78%










Percentage of **Americans** who expect to escape cyber crime in their lifetime :

2%

COMMON CYBER THREATS

Cyber threats are in the headlines and possibly in your network. Here are some common forms of cyber threats to protect against

<p>RANSOMWARE</p> <p>malevolent software which locks user access by encrypting data using cryptovirology while extorting payment from the victim in order to de-encrypt and restore the files</p> 	 <p>SPOOFING</p> <p>email messages sent from a fraudulent account masquerading as a legitimate and trusted source as an attempt to gain access to a user's system or confidential information</p>	<p>BOTNETS</p> <p>a "secret key" that provides entry to devices and connections to be controlled by an attacker for criminal purposes</p>	<p>TROJANS</p> <p>computer program containing destructive code disguised as harmless programming</p>	<p>DENIAL OF SERVICE (DDOS)</p> <p>floods bandwidth making online systems unavailable</p>	<p>PHARMING</p>  <p>a DNS server software vulnerability is exposed or a host file is swapped and a legitimate website is maliciously redirected to a scam site where unknowing visitors enter their confidential information</p>
 <p>MALWARE</p> <p>malicious software installed on a machine unknowingly and performs criminal actions for a third party</p>	 <p>WORM</p> <p>stand alone software which does not require a host program in order to propagate and replicate itself onto other networks and drives damaging data and software as it spreads</p>	 <p>VIRUS</p> <p>a type of malware that when executed spreads from computer to computer by replicating its programming and infecting user programs and files to change the way they operate or to stop working altogether</p>	<p>ADWARE</p> <p>can redirect search requests or automatically render advertisements producing revenue for its creator</p>	<p>SPYWARE</p> <p>criminal malware on the hard drive used to covertly monitor user activities</p>	<p>PHISHING</p>  <p>a DNS server software vulnerability is exposed or a host file is swapped and a legitimate website is maliciously redirected to a scam site where unknowing visitors enter their confidential information</p>

TRENDS IN U.S. WORKER CYBER RISK-AVERSION AND THREAT PREPAREDNESS

Survey of 400 U.S. workers by Spanning Cloud Apps reveals a risk of enterprise data loss due to gap between cybersecurity risk awareness and daily behaviors.

EMPLOYEES DEMONSTRATE RISKY BEHAVIORS

55%

admitted to clicking on links they didn't recognize



49%

have downloaded a web extension to their work device



WORKERS WOULD RATHER BE "NICE" THAN SAFE

1 in 5

share passwords over text or email



45%

would share their computer with colleagues



DATA LOSS IS A REAL PROBLEM

7 in 10

respondents have accidentally deleted files



25%

have lost data in G Suite or Microsoft Office 365





You are a **Target** !!



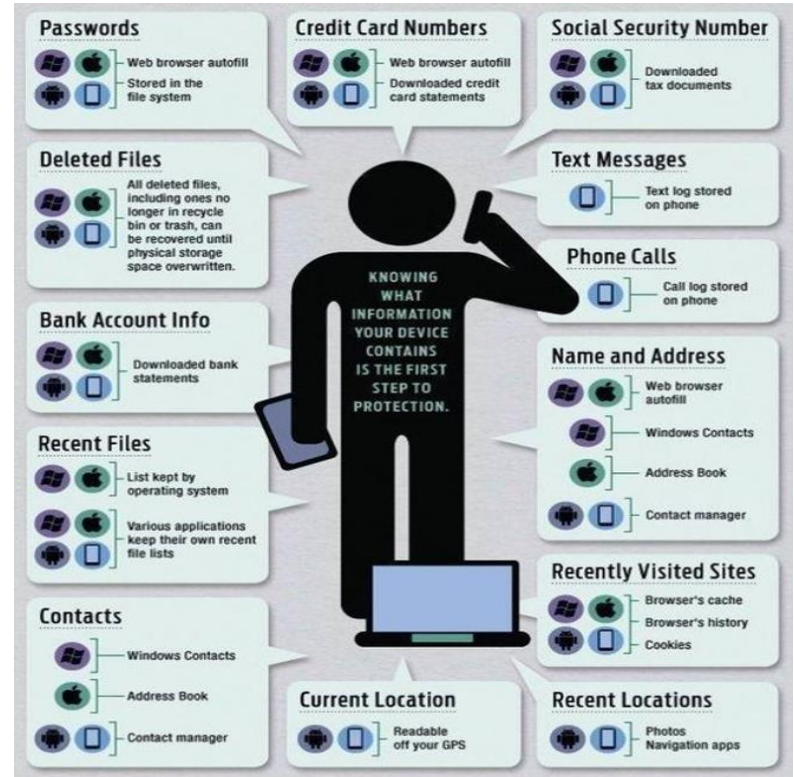
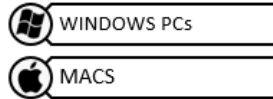
You are a target!!

- เรามีอะไร
- ทำไมต้องมา hack เรา
- เราไม่ได้มีเงินใน ธนาคารเยอะจะมา hack ไปทำอะไร
- เราไม่มีข้อมูลอะไร



What do your devices know about you?

Whether it's a computer on your desk or a phone in your pocket, your devices retain a lot of personal data. And all of that information may be vulnerable to cybercriminals.





Social Engineering

Social Engineering



Social Engineering

SOCIAL ENGINEERING TACTICS

YOUR DATA IS AT RISK EVERYDAY THROUGH SOCIAL ENGINEERING ATTACKS.

WHY SOCIAL ENGINEERING?

HACKING A HUMAN IS MUCH EASIER THAN HACKING A BUSINESS.



Social Engineering ในสถานการณ์ต่างๆ

```

      /pHw==
ARC-Authentication-Results: i=1; mx.google.com;
      spf=softfail (google.com: domain of transitioning somchai@g.swu.ac.th does not designate 195.128.120.25 as permitted sender) smtp.mailfrom=somchai@g.swu.ac.th
Return-Path: <somchai@g.swu.ac.th>
Received: from mail05.parking.ru (mail05.parking.ru. [195.128.120.25])
      by mx.google.com with ESMTTP id b14si9851064ljk.220.2019.04.29.21.04.09
      for <mahuttha@g.swu.ac.th>;
      Mon, 29 Apr 2019 21:04:09 -0700 (PDT)
Received-SPF: softfail (google.com: domain of transitioning somchai@g.swu.ac.th does not designate 195.128.120.25 as permitted sender) client-ip=195.128.120.25;
Authentication-Results: mx.google.com;
      spf=softfail (google.com: domain of transitioning somchai@g.swu.ac.th does not designate 195.128.120.25 as permitted sender) smtp.mailfrom=somchai@g.swu.ac.th
Received: from web38.corp.parking.ru [195.128.121.111] by mail05.parking.ru with SMTP;
      Tue, 30 Apr 2019 07:04:02 +0300
Thread-Topic: ?????
thread-index: AdT/Cb6hmpXuIDyySxepXYCvRRn0aQ==
From: President of Srinakharinwirot University <somchai@g.swu.ac.th>
To: <mahuttha@g.swu.ac.th>
Cc:
Bcc:
Subject: ?????
Date: Tue, 30 Apr 2019 07:04:01 +0300
Message-ID: <6EB809025F77439C8844318BD21614DC@corp.parking.ru>
MTIME-Version: 1.0

```

Social Engineering ในสถานการณ์ต่างๆ

Download file document music from website with malicious virus attach it.

Contain some link from friend E-mail.



Phishing Scam

เรียนลูกค้า

รหัสผ่าน KTB netbank ของคุณมีการเปลี่ยนแปลงตามที่คุณร้องขอ อย่างไรก็ตาม หากคุณไม่ได้ขอเปลี่ยนรหัสผ่านโปรดไปที่ <https://www.ktbnetbank.com> เพื่อยืนยันตัวตนของคุณและรีเซ็ตรหัสผ่านทันที

เปลี่ยนได้เมื่อ: 28 มีนาคม 2019 เวลา 23:55 น

อุปกรณ์: หน้าต่าง 8

ที่อยู่ IP: 301.442.89.297

สถานที่โดยประมาณ: นิวเดลีอินเดีย

เราขออภัยในความไม่สะดวกที่อาจเกิดขึ้น

ขอบคุณ.

ทีมรักษาความปลอดภัย KTB Netbank

© 2019 Krungthai Bank PCL

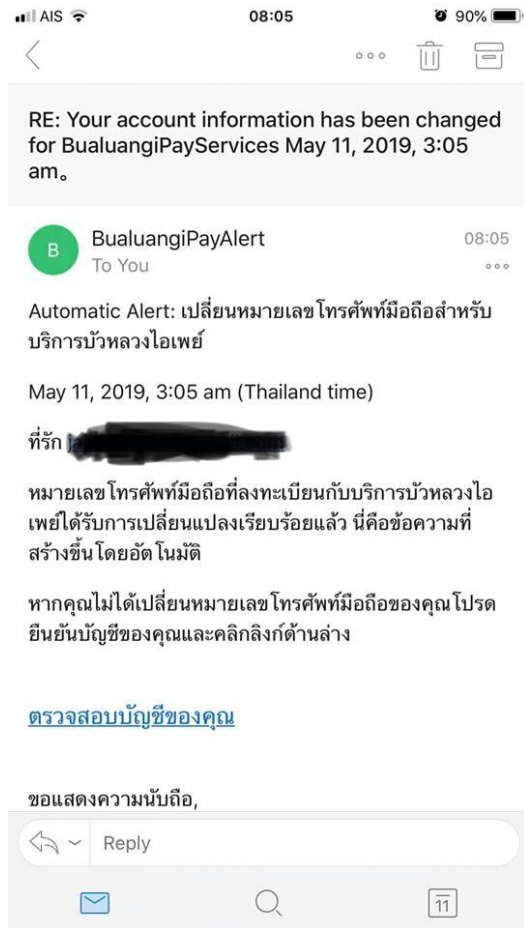
การเปลี่ยนแ

ปรดไปที่ <https://www.ktbnetbank.com> เพื่อ
ผ่านทันที

<https://apostrophe.icu/pass-invalid/jslktbnet/index.php>

Click or tap to follow link.

Phishing Scam



Phishing Scam

Apple : Verify Your Information.

5 มิถุนายน 2556, 5:43

Dear apple User,

This is an automatic message by the system to let you know that you have to confirm your account information within 48 hours. Your account has been frozen temporarily in order to protect it.

The account will continue to be frozen until it is approved And Validate Your Account Information. Once you have updated your account records, your information will be confirmed and your account will start to work as normal once again.

[Verify Your Information.](#)

Wondering why you got this email?

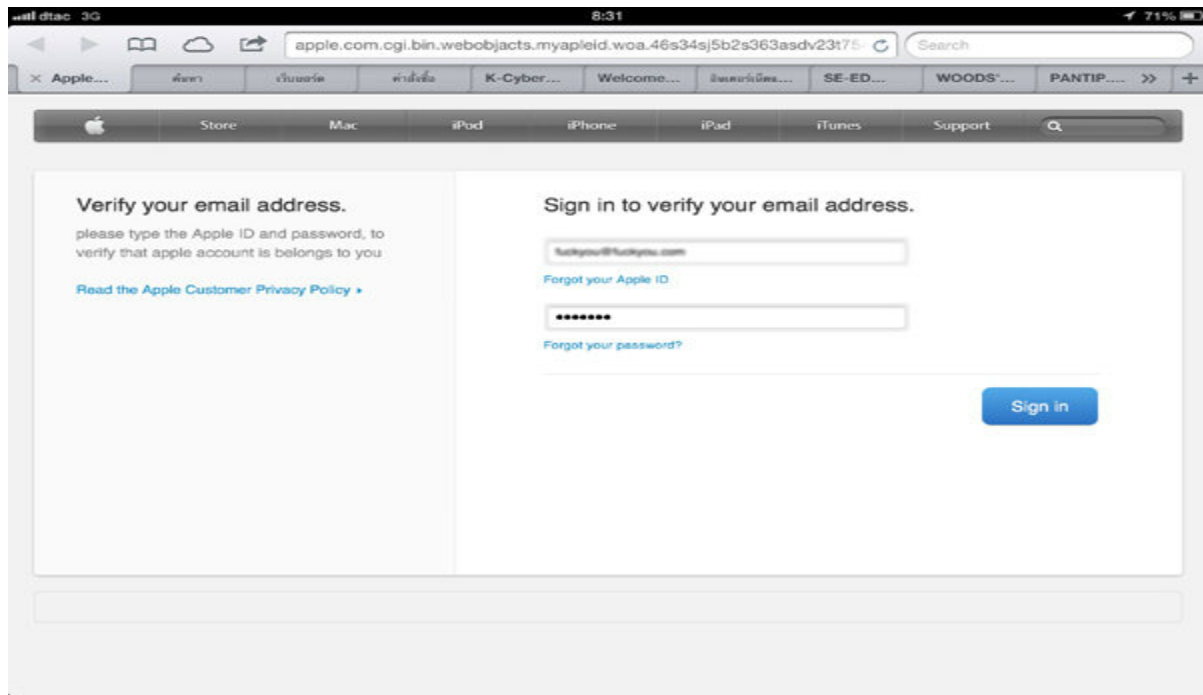
It's sent when someone adds or changes a contact email address for an Apple ID account. If you didn't do this, don't worry. Your email address cannot be used as a contact address for an Apple ID without your verification.

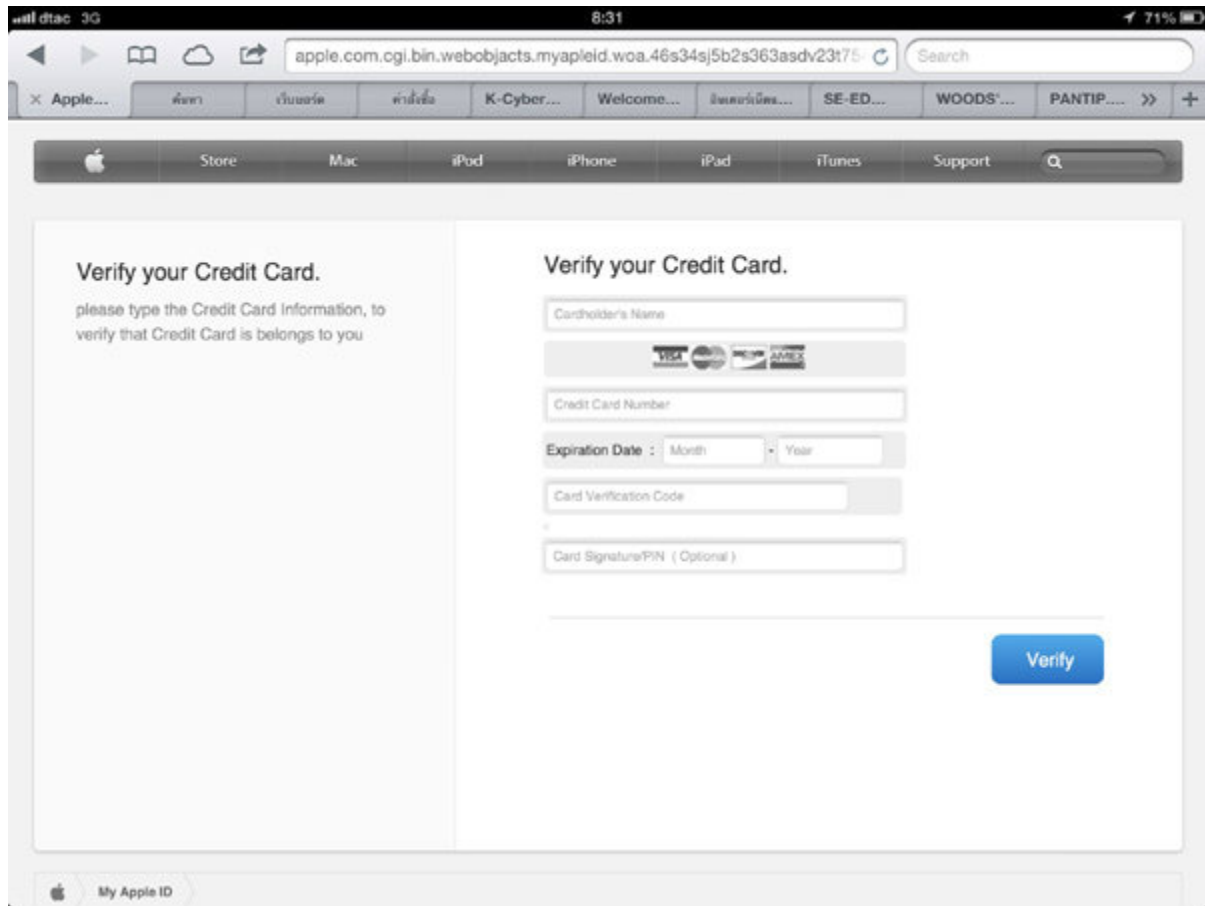
If you need further assistance, please [contact us](#).

Best regards,

Appel Support

TM and copyright 2013 appelInc.





Apple : Verify Your Information.

Inbox



apple@apple.com via @igbox.net
to me

5:43 AM (3 hours ago)



Dear apple User,

This is an automatic message by the system to let you know that you have to confirm your account information within 48 hours.
Your account has been frozen temporarily in order to protect it.

The account will continue to be frozen until it is approved and you validate your account information.
Once you have updated your account records, your information will be confirmed and your account will start to work as normal once again.

[Verify Your Information.](#)

Wondering why you got this email?

It's sent when someone adds or changes a contact email address for an Apple ID account. If you didn't do this, don't worry. Your email address cannot be used as a contact address for an Apple ID without your verification.

For more information, please refer to [Apple Support](#).

Best regards,

Apple Support

ខ្មែរ: វ៉ៃធុររូស្រ្តភ័ក្ត្រសុំការ **Apple Support**



TM and copyright: 2013 appleinc.



THAIRWAYS.COM-THL.COM

การบินไทยลดจรรยา 57 ปีด้วยการมอบตัวฟรี 2 ใบให้กับ
การบินไทยลดจรรยา 59 ปีด้วยการ

→ <https://whois.icann.org/en/lookup?name=com-thl.com>

com-thl.com

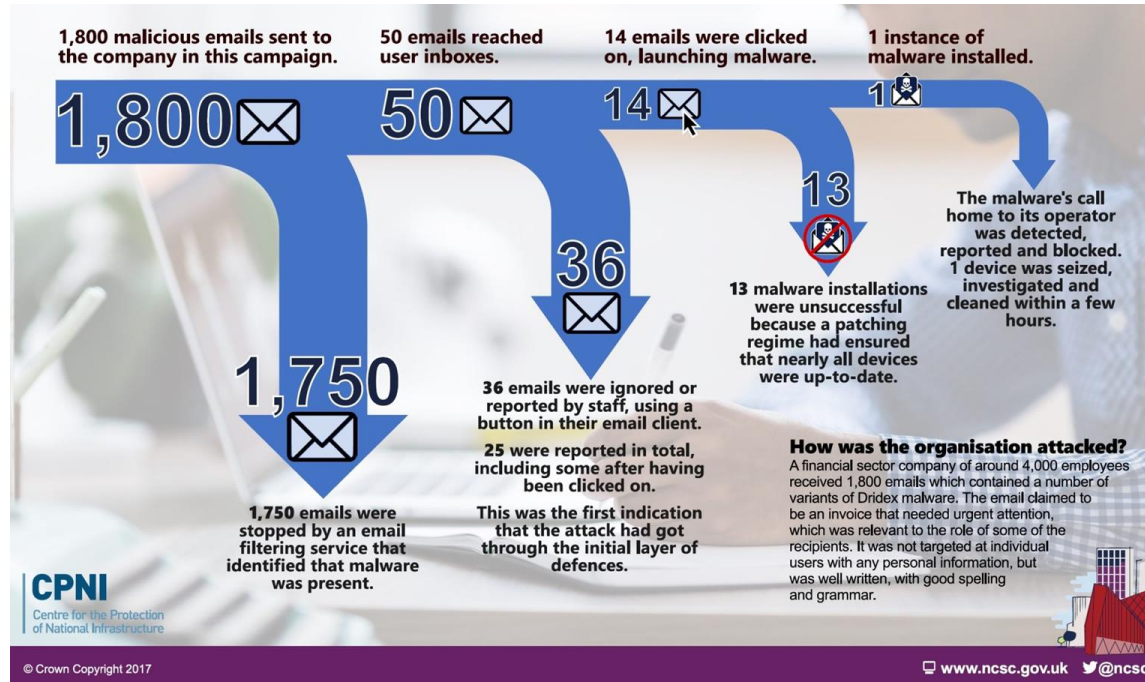
By submitting any personal data, I agree that the personal data will be processed in accordance with the website [Terms of Service](#).

Raw WHOIS Record

Domain Name: com-thl.com
Registry Domain ID: 2391103753_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namesilo.com
Registrar URL: <https://www.namesilo.com/>
Updated Date: 2019-05-16T07:00:00Z
Creation Date: 2019-05-15T07:00:00Z
Registrar Registration Expiration Date: 2020-05-15T07:00:00Z
Registrar: NameSilo, LLC
Registrar IANA ID: 1479
Registrar Abuse Contact Email: abuse@namesilo.com
Registrar Abuse Contact Phone: +1.4805240066
Domain Status: clientTransferProhibited

Multi-layered Phishing mitigations

The following real-world example shows how implementing layers of defences can help organisations (in this case a financial sector company of around 4,000 staff) defend themselves against phishing attacks. Reliance on any single layer would have missed some of the attacks, and cleaning infecting devices is costly and prohibitively time consuming.



Baiting Scenarios

Attack well known หลอกหลอนเหยื่อให้ติดเบ็ด

- เช่น บน website ที่ให้ download พวก porn site , crack



How To Prevent Social Engineering Attacks?

- DO NOT open emails in the spam folder or emails whose recipients you do not know
- DO NOT open attachments in the emails from unknown origin
- Use a reputable antivirus software
- Backup your data to disk offline or cloud
- Training security awareness
- Test social engineering attack in organization

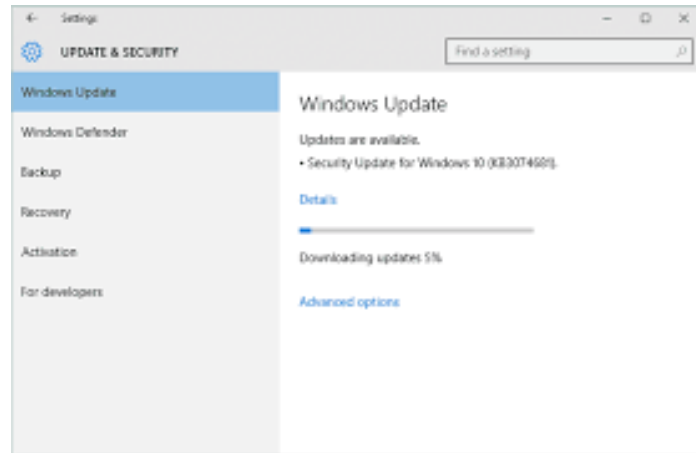




System Security

System Security

- Update antivirus and malware
- Update patch windows



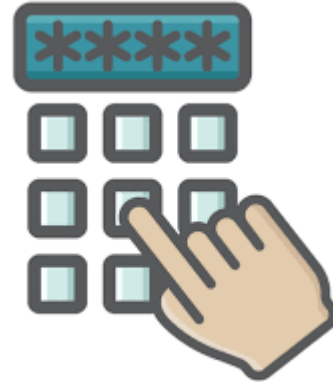


Password

Basic Identification

Something you know...

- Passwords, PINs, Secret or key
- Complex password



Password security

Attackers use a variety of techniques to discover passwords, including using powerful tools freely available on the internet. The following device makes password security easier for your users - improving your system security as a result

How passwords are cracked...

Interception

Passwords can be intercepted as they are transmitted over a network.



Brute Force

Automated guessing of billions of passwords until the correct one is found.

Searching

IT infrastructure can be searched for electronically stored password information.



Manual Guessing

Personal information, such as name and date of birth can be used to guess common passwords.



Social Engineering

Attackers use social engineering techniques to trick people into revealing passwords.



Stealing Passwords

Insecurely stored passwords can be stolen - this includes handwritten passwords hidden close to a device.

Shoulder Surfing

Observing someone typing their password.



Key Logging

An installed keylogger intercepts passwords as they are typed.



...and how to improve your system security

Help users cope with 'password overload'

- Only use passwords where they are really needed.
- Use technical solutions to reduce the burden on users.
- Allow users to securely record and store their passwords.
- Only ask users to change their passwords on indication of suspicion of compromise.
- Allow users to reset password easily, quickly and cheaply.

Help users generate appropriate passwords

- Put technical defences in place so that simpler passwords can be used.
- Steer users away from predictable passwords - and ban the most common.
- Encourage users to never re-use passwords between work and home.
- Train staff to help them avoid creating passwords that are easy to guess.
- Be aware of the limitations of password strength meters.



Blacklist the most common password choices



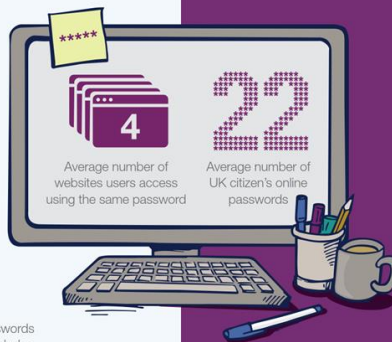
Monitor failed login attempts... train users to report suspicious activity



Prioritise administrator and remote user accounts



Don't store passwords in plain text format.



***** UPDATE

Change all default vendor supplied passwords before devices or software are deployed

Use account lockout, throttling or monitoring to help prevent brute force attacks



For more information go to www.ncsc.gov.uk @ncsc

Basic Identification (cont.)

Something you have

- Physical devices: magnetic cards, smart cards, tokens, bluetooth, password generators, cellphones...



Basic Identification (cont.)

Something you are...

- Biometrics (fingerprints, iris recognition, voice, handwriting)





E-mail & Social login

E-mail & Social Login

The image displays a user interface for login and registration. On the left, there are four buttons for social and email login: 'CONNECT WITH FACEBOOK' (blue), 'CONNECT WITH TWITTER' (light blue), 'CONNECT WITH GOOGLE' (red), and 'CONNECT WITH EMAIL' (dark grey). A vertical line with the word 'OR' in the center separates these from the registration form on the right. The registration form is titled 'CREATE NEW ACCOUNT:' and contains three input fields: 'NAME', 'EMAIL', and 'PASSWORD'. Below these fields is a blue 'CREATE ACCOUNT' button.

CONNECT WITH FACEBOOK

CONNECT WITH TWITTER

CONNECT WITH GOOGLE

CONNECT WITH EMAIL

OR

CREATE NEW ACCOUNT:

NAME

EMAIL

PASSWORD

CREATE ACCOUNT



DATA PROTECTION INSIGHTS

The Latest Facebook Password Leak: Hundreds of Millions of User Passwords Exposed to Company Employees

Apps and Websites

Logged in With Facebook

Active 6 Expired Removed

Search Apps and Websites







Data Access: Active

These are apps and websites you've used Facebook to log into and have recently used. They can request info you chose to share with them. [Learn More](#)

Use this list to:

- View and update the info they can request
- Remove the apps and websites you no longer want

Active Apps and Websites Remove

 Shopee View and edit <input type="checkbox"/>	 Wongnai View and edit <input type="checkbox"/>	 TradingView View and edit <input type="checkbox"/>
 airvisual.com View and edit <input type="checkbox"/>	 Swensens112 View and edit <input type="checkbox"/>	 Huawei Health View and edit <input type="checkbox"/>

Preferences

Cyber Security Small Business Guide

This advice has been produced to help small business protect themselves from the most common cyber attacks. The 5 topics covered are easy to understand and cost little to implement. Read our quick tips below

Backing up your data

Take *regular* backups of your important data, and *test* they can be restored. This will reduce the inconvenience of any data loss from theft, fire, other physical damage, or ransomware.



Identify what needs to be backed up. Normally this will comprise documents, photos, emails, contacts, and calendars, kept in a few common folders. Make backing up part of your everyday business.



Ensure the device containing your backup is not permanently connected to the device holding the original copy, neither physically nor over a local network.



Consider backing up to the cloud. This means your data is stored in a separate location (away from your offices/devices), and you'll also be able to access it quickly, from anywhere.

Keeping your smartphones (and tablets) safe



Smartphones and tablets (which are used outside the safety of the office and home) need even more protection than 'desktop' equipment.



Switch on PIN/password protection/fingerprint recognition for mobile devices.



Configure devices so that when lost or stolen they can be tracked, remotely wiped or remotely locked.



Keep your devices (and all installed apps) up to date, using the 'automatically update' option if available.



When sending sensitive data, don't connect to public Wi-Fi hotspots - use 3G or 4G connections (including tethering and wireless dongles) or use VPNs.



Replace devices that are no longer supported by manufacturers with up-to-date alternatives.

Preventing malware damage

You can protect your organisation from the damage caused by 'malware' (malicious software, including viruses) by adopting some simple and low-cost techniques.



Use antivirus software on all computers and laptops. Only install approved software on tablets and smartphones, and prevent users from downloading third party apps from unknown sources.



Patch all software and firmware by promptly applying the latest software updates provided by manufacturers and vendors. Use the 'automatically update' option where available.



Control access to removable media such as SD cards and USB sticks. Consider disabling ports, or limiting access to sanctioned media. Encourage staff to transfer files via email or cloud storage instead.



Switch on your firewall (included with most operating systems) to create a buffer zone between your network and the Internet.

Avoiding phishing attacks

In phishing attacks, scammers send fake emails asking for sensitive information (such as bank details), or containing links to bad websites.



Ensure staff don't browse the web or check emails from an account with Administrator privileges. This will reduce the impact of successful phishing attacks.



Scan for malware and change passwords as soon as possible if you suspect a successful attack has occurred. Don't punish staff if they get caught out (it discourages people from reporting in the future).



Check for obvious signs of phishing, like poor spelling and grammar, or low quality versions of recognisable logos. Does the sender's email address look legitimate, or is it trying to mimic someone you know?

Using passwords to protect your data

Passwords - when implemented correctly - are a free, easy and effective way to prevent unauthorised people from accessing your devices and data.



Make sure all laptops, MACs and PCs use encryption products that require a password to boot. Switch on password/PIN protection or fingerprint recognition for mobile devices.



Use two factor authentication (2FA) for important websites like banking and email, if you're given the option.



Avoid using predictable passwords (such as family and pet names). Avoid the most common passwords that criminals can guess (like password).



If you forget your password (or you think somebody else knows it), tell your IT department as soon as you can.



Change the manufacturers' default passwords that devices are issued with, before they are distributed to staff.



Provide secure storage so staff can write down passwords and keep them safe (but not with the device). Ensure staff can reset their own passwords, easily.



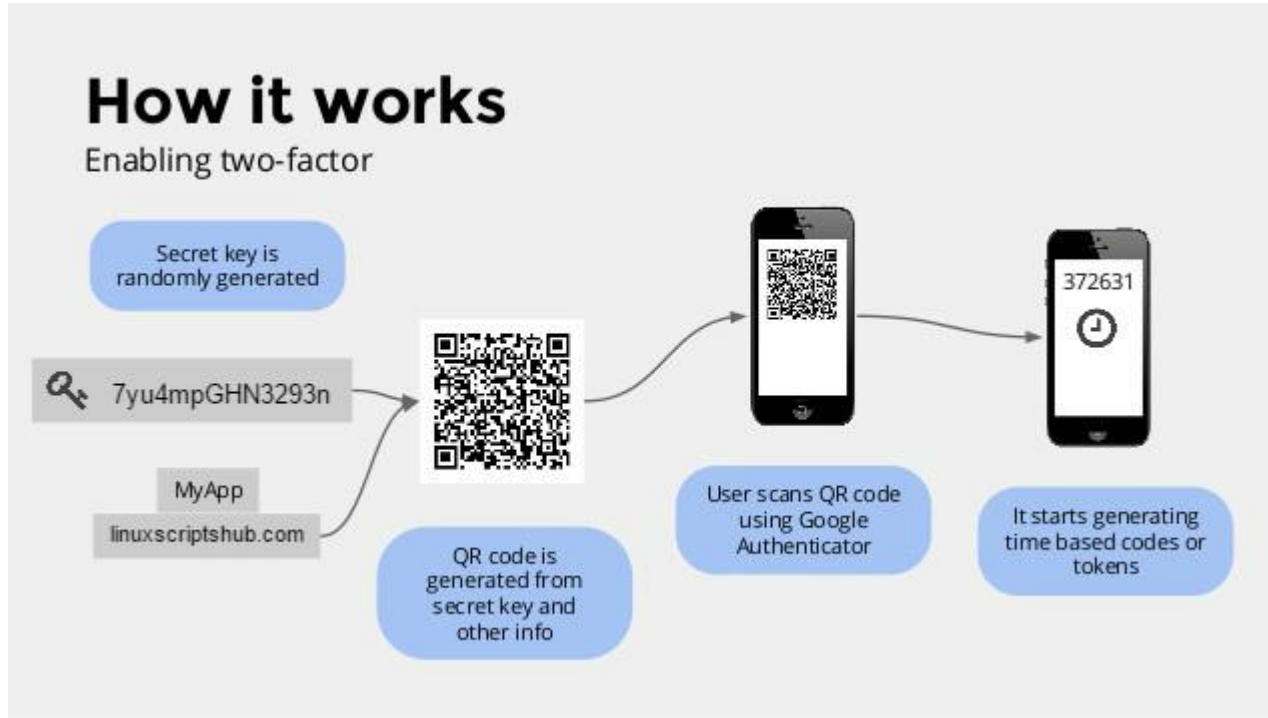
Consider using a password manager. If you do use one, make sure that the 'master' password (that provides access to all your other passwords) is a strong one.



Google's own data proves two-factor is the best defense against most account hacks



Enable 2FA (2 Factor Authentication)

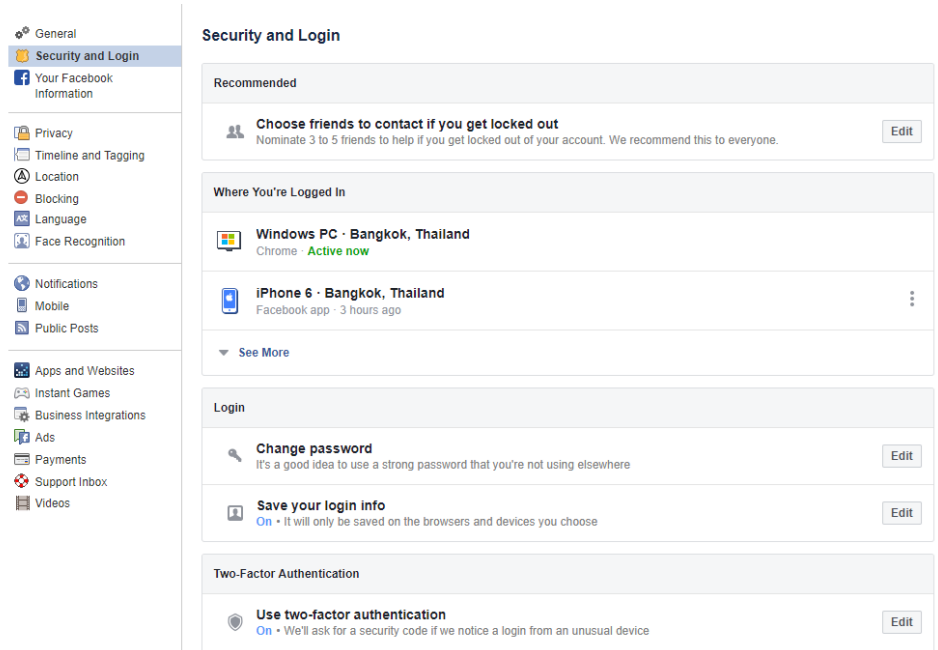


Enable 2FA (2 Factor Authentication)

- Download google authentication application for (android , IOS)



Facebook -> setting -> security & login



The screenshot displays the Facebook 'Security and Login' settings page. On the left is a navigation menu with categories like General, Security and Login, Your Facebook Information, Privacy, Location, Blocking, Language, Face Recognition, Notifications, Mobile, Public Posts, Apps and Websites, Instant Games, Business Integrations, Ads, Payments, Support Inbox, and Videos. The 'Security and Login' section is active. The main content area is titled 'Security and Login' and contains several sections: 'Recommended' with a 'Choose friends to contact if you get locked out' option; 'Where You're Logged In' showing active sessions on a Windows PC and an iPhone 6 in Bangkok, Thailand; 'Login' with options to 'Change password' and 'Save your login info'; and 'Two-Factor Authentication' with an option to 'Use two-factor authentication'. Each option includes a brief description and an 'Edit' button.

Security and Login

Recommended

Choose friends to contact if you get locked out
Nominate 3 to 5 friends to help if you get locked out of your account. We recommend this to everyone. [Edit](#)

Where You're Logged In

Windows PC - Bangkok, Thailand
Chrome - **Active now**

iPhone 6 - Bangkok, Thailand
Facebook app - 3 hours ago

[See More](#)

Login

Change password
It's a good idea to use a strong password that you're not using elsewhere. [Edit](#)

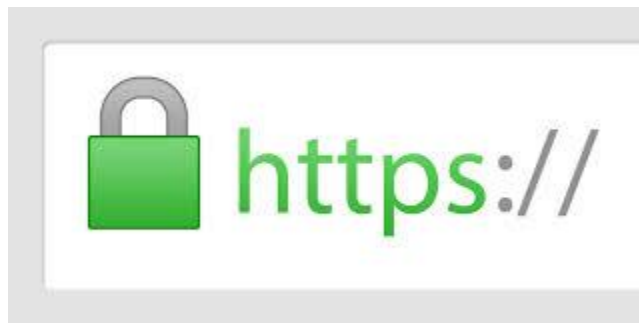
Save your login info
On • It will only be saved on the browsers and devices you choose. [Edit](#)

Two-Factor Authentication

Use two-factor authentication
On • We'll ask for a security code if we notice a login from an unusual device. [Edit](#)

10 วิธีในการ shopping online อย่างปลอดภัย

เลือก website ที่เป็น https



10 วิธีในการ shopping online อย่างปลอดภัย

ทำธุรกรรมผ่าน internet ส่วนตัว เช่น ที่บ้าน หรือเครื่องตัวเอง ไม่ควรใช้เครื่องสาธารณะ

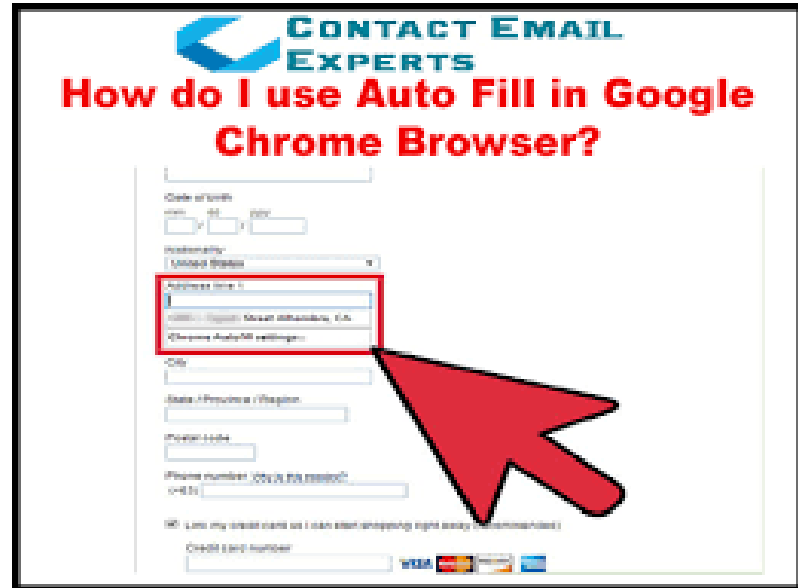


10 วิธีในการ shopping online อย่างปลอดภัย

ใช้บัตรเครดิต หรือ E-wallet ไม่ควรใช้ เดบิต



ไม่บันทึกข้อมูลบัตรเครดิตบน browser



CONTACT EMAIL EXPERTS

How do I use Auto Fill in Google Chrome Browser?

Code of birth
mm / dd / yyyy

Nationality
United States

Address line 1
12345 Maple Street, Mountain View, CA
[View your AutoFill settings](#)

City

State / Province / Region

Postal Code

Phone number (Country code optional)

Let my credit card sit in I can start shopping right away (recommended)

Credit card number

visa

MasterCard

Discover

Amex

ซื้อจากร้านที่มีชื่อเสียงน่าเชื่อถือ โดยอาจดูจาก
review หรือ rating



ໄມ້ຈວນ click link ໃບ E-mail ຫຼືອ link ແປລາຄາ

CLICK HERE!



ตั้ง password ในการ access เข้ามือถือ



Update ระบบ application browser หรือซอฟต์แวร์บ่อยๆ



ติดตั้ง antivirus



อย่าหลงเชื่อข้อเสนอก่เกินจริง

หยุด!! โฆษณากันจริง

ผลิตภัณฑ์อาหารเสริมลดน้ำหนัก
เพ็ญวเรืองงาม
สวยครบจบใน 1 กล่อง
น้ำหนักดี ควบคุมน้ำหนัก
กระชับรูปร่าง
นอนพร้อมสวย
ภายใน **7** วัน

ผลิตภัณฑ์เสริมอาหาร
กาแฟที่ใช้ส่วนผสมดีที่สุดในโลก!
สรรพคุณครอบคลุมจักรวาล
ช่วยบำบัด รักษาและป้องกันโรค!
กาแฟถึงใจ

ครีมขาวสาวสวยบึง
ขนาดน้ำส้ม ถึง 150 ไร่ร้อย
ราคากระจ่ายสร้างใส่ ๑๕๐ บาท
เพียง 3 วัน มีฟันขาวในหนึ่งคืน

ยาชุด หนอยโรค!
โรคอะไรรักษาได้
กับเลี้ยวชีวิต!

จริงหรือนี่?
โฆษณากันได้เวอร์มาก!
แบบนี้ต้องแจ้งตรงจสบ

พบเห็นโฆษณาจำหน่าย ไร้อวด หลอกลวง
เป็นเท็จ อ้างอิงข้อมูลเท็จจริง
โปรดช่วยกันแจ้งเบาะแสหรือร้องเรียนมาที่
สายด่วน อย. 1556
และสายด่วน กสทช. 1200

**หากตรงจสบว่ามีคนฉ้อฉลจริงสั่งระงับทันที

กสทช.
สำนักงานคณะกรรมการการกระจายเสียง กิจการโทรทัศน์ และกิจการโทรคมนาคมแห่งชาติ
Call Center 1200 กสทช. @NBTC NBTC.th

ด้วยความห่วงใย
จากสำนักงาน กสทช.

FAQ service in SWU

Just so you know

FAQ Service in University

I-Pass

- ทำไม I-Pass ต้องนับเวลา 2 ชั่วโมง
- ทำไม I-Pass ใช้ได้แค่ 2 เครื่องพร้อมกัน
- I-Pass สามารถดูได้ว่า Account เราไปใช้อยู่ที่ไหนบ้าง
- ถ้า Log-in เกิน 2 เครื่องจะทำอย่างไร
- ฉันไม่ได้ใช้งานเลยแต่ทำไมมีคนใช้ Account ฉันอยู่ (ตอบ รับเปลี่ยนรหัสสิจ๊ะ)

สอนใช้งาน I-Pass





SWU Internet Passport

Buasri ID

Password

[Sign In](#)