CYBERSECURITY FOR MOBILE DEVICES

A COMPILATION OF INFOGRAPHICS FROM ASEAN COUNTRIES





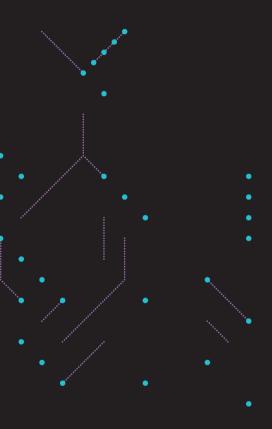


Introduction

The increased use of smartphones and other smart devices has made life more convenient. At the same time, it has also exposed us to risk from cyber threats such as online scams and data theft.

With the COVID-19 pandemic triggering a surge in digitalisation and e-commerce, the attack surface for cyber criminals has correspondingly increased. It is now more urgent than ever for government agencies to increase public awareness of cybersecurity and the need to adopt measures to protect our devices and data.

At the First ASEAN-Japan Cybersecurity Working Group Online Meeting on 18 Feb 2021, ASEAN Member States and Japan agreed to work on building cybersecurity awareness through collaborative efforts. This compilation of infographics by ASEAN Member States and Japan based on the theme, "Cybersecurity for Mobile Devices", is an initiative to bring countries together to share best practices and exchange public education resources. More importantly, it aims to help the citizens of the ASEAN-Japan community navigate cyberspace safely.



Contents

Brunei - Two-Factor Authentication

Cambodia - Mobile Password Management

Indonesia - Two-Factor Authentication

Japan - Patch your Psychological Security Hole

Lao PDR - Mobile Security Recommendation

Malaysia - Online Presence Security

Myanmar - Ransomware in Mobile Device

Philippines - Online Classroom Platforms

Singapore - Email Extortion Scam

Thailand - How to Use Mobile Safely

Vietnam - Free Apps



Two-Factor Authentication

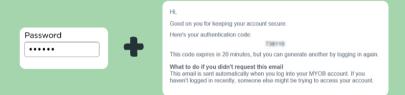
Two-Factor Authentication

or Multiple Factor Authentication is when a user successfully presents two or more pieces of evidence to an authentication device to gain access to his mobile device.



Examples of Two-Factor Authentication

Password & E-mail Verification



Password & SMS Code Verification



PIN Code & SMS Code Verification



Enable Two-Factor Authentication On Your Social Media Accounts



WhatsApp

Settings > Account > Two-Factor Verification



Facebook

Settings & Privacy > Settings > Security & Login > Use Two-Factor Authentication



Instagram

Settings > Security > Two-Factor Authentication



Twitter

Settings and privacy > Account > Security > Two-Factor Authentication



LinkedIn

Settings > Sign In & Security > Two-Step Verification



Telegram

Settings > Privacy & Security > Two-Step Verification



Apple ID

Settings > [Your Apple ID] > Password & Security > Turn on Two-Factor Authentication



Google Account

Go to https://myaccount.google.com > Security > Select 2-Step Verification > Follow the instructions to turn on 2-Step Verification

An initiative by

BRUCE

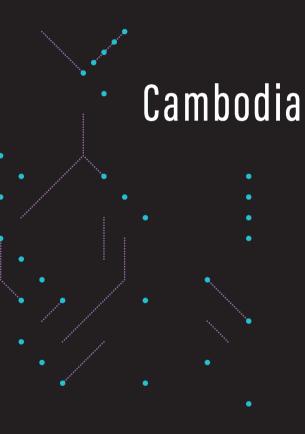


A team under

Learn more about online safety







Mobile Password Management



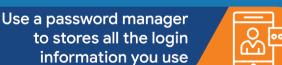
MINISTRY OF POST AND TELECOMMUNICATIONS GENERAL DEPARTMENT OF ICT DEPARTMENT OF ICT SECURITY



MOBILE PASSWORD MANAGEMENT



Set up unique password / pin / passcode not related to your personal information







Lock your device with strong password / pin / passcode







Use biometrics to unlock your device (Ex. facial recognition or fingerprint access)





Use unique and separate password for each account and app on your device

to other

Don't share your password

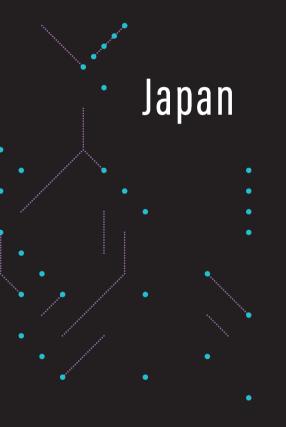


Don't reuse old password



Two-Factor Authentication





Patch Your Psychological Security Hole

Patch Your **Psychological** Security Hole

Resistance to Social Engineering

Starting with searching trash cans, this method has been used for all kinds of fraud, including money transfer fraud such as "leading a person into a situation where they cannot make rational decisions", methods of controlling the other party's behavior to extract necessary information, or in many cases where important information is stolen because of believing that "no one is watching" or "no one would be looking without permission" or letting your guard down. Company information and personal information are important assets. To protect your assets, be wary of "vulnerabilities of the mind"!

What Is a "Social Engineering"?

This is a method of stealing vital information such as passwords that are needed to break into networks. Many of these methods take advantage of the psychological vulnerabilities of humans and behavioral mistakes.





Social Engineering in the digitalized generation also uses manipulation in the same way.

Shoulder Hacking

For example, as a way to obtain valuable information without direct contact with the target, the PIN code or pattern lock of someone using their smartphone on the train can be stolen using "Shoulder Hacking" while standing behind them.



Going through garbage cans.a technique that does not require direct contact with

Use a shredder, etc. to ensure that documents or DVDs data cannot be restored!



The pattern lock

is Z-shaped

Someone may be peeking over your shoulder!



Make sure to confirm the identity of the person on the other end of the phone!



Hello, this is Abcd !!





This is director XYZ!!

Nobody told me!



"Name Dropping" (Eliciting information by appearing to have authority), and "Hurry Up" (To get information by rushing a target) to control the situation where the target cannot think normally, elicit the necessary information or have the target perform a requested action.

Classic Social Engineering

For scams in general, including bank transfer scams, calling it "a commonly-used social engineering technique that targets psychological security holes" gives you an idea of its nature.





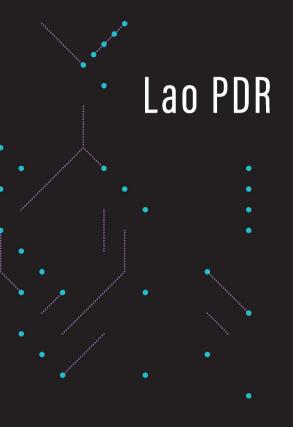
"Looking at Finger Traces

Or the pattern lock of a smartphone left on a table can be discovered by picking it up and looking at the finger traces on the screen.

By identifying how to unlock the smartphone in advance, you can obtain all of their other personal data by stealing their smartphone later.







Mobile Security Recommendation

Mobile Security Recommendation You should be followed these methods to reduce the risk of mobile threats



Use a strong password to lock the screen







Check privacy and security, Especially turn on finding my phone



Keep your phone software updated



Don't save essential information on mobile phone



Be careful when connecting to free Wi-Fi, Especially do not process any financial



Be careful before click links

99% of mobile threats occurred from a lack of understanding of how to use mobile safety, so awareness-raising is the most essential.

Don't forget to log out from the application when you are not used











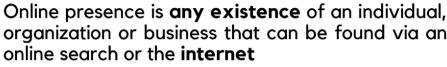
Online Presence Security

Online Presence Security





What is online presence? organization or business that can be found via an









Why we need online presence security?













What are the dangers during online presence?





Turn-off 'Save Password' feature in web browser

Use Two-Factor authentication

Do not share personal information online

Use strong and unique password for every login

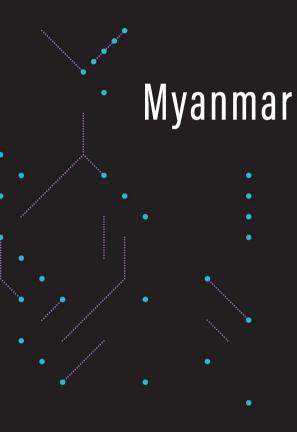
> Avoid using public wi-fi

Make online purchase from secure site

Perform routine Back-up

Install and update an antivirus in every device

How can we protect our online presence?



Ransomware in Mobile Device

RANSOMWARE MOBILE DEVICE

Android 5%

iOS 3%

Mac OS 7%

Source: purplesec.us

Window 85%

TYPES OF MOBILE RANSOMWARE



Lock-screen types



▶ File-encrypting type





Damage costs predited to reach

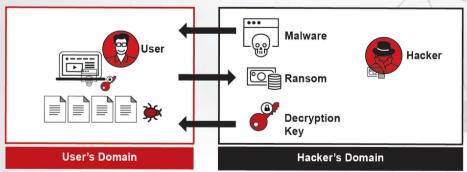
Billion USD

Source: cybersecurityventures

RISKS OF INFECTION

- Destroy Backups
- Steal Credentials
- Leak Stolen Data
- ▶ Publicly expose Victims
- Threaten victim's customers

PROCESS OF RANSOMWARE



WAYS TO PROTECT RANSOMWARE

- ▶ Be aware of installing fake apps
- ▶ Back up all files
- ▶ Use a trusted and robust mobile security solution
- ▶ Keep up-to-date about the latest threats
- ▶ Install Security Patches

an's custon

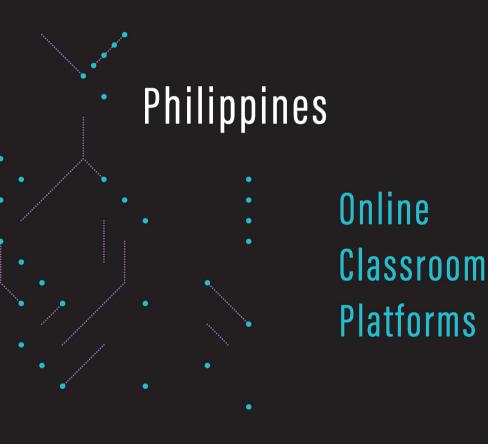
To attack a business

Every **SECONDS**

by the end of 2021

Source: cybersecurityventures





Saje Use of Online Classroom Platforms

- Set your online class to "private"
- Teachers should have a class list to ensure that students in the room are accounted for
- Don't share the class link or Meeting ID number on social media or any messaging apps
- Enable password for each session



- Don't let anyone use your account for your online classes
- Teachers should appoint a co-host that could take control of the class in case he/she gets kicked out of the room
- Regularly update application
- Avoid using third party apps like video and voice recording, during class











WHAT IS AN EMAIL EXTORTION SCAM?



What should you do if you receive an extortion email?

Learn how this scam works and what you should do to avoid falling victim.

HOW THE SCAM WORKS



- 1 You receive an email claiming that your device/account has been compromised
- Scammer claims to have your 'private and confidential' information
- A ransom is demanded to keep the information private, typically in a currency called Bitcoin
- Scammer may use your email and password from past data breaches as 'proof' that the email is legitimate

WHAT SHOULD YOU DO?

Do not make payment. Delete the email immediately. To prevent unauthorised access, you should:



Set strong passwords that are long and random



Enable Two-Factor Authentication (2FA) when available



Do not use personal information (e.g. NRIC) in your passwords



Perform anti-virus scans on all devices



Use different passwords for different accounts



Keep your software up-to-date



How to Use Mobile Safely



OW TO USE

SING MOBILE MIGHT BE MORE DANGEROUS THAN YOU COULD IMAGINE



PERSONAL DATA OR ORGANIZATIONS' CLASSIFICATION DATA MIGHT BE LEAKED AND RANSOMED



THE POSSIBILITY IN BEING DIGITALLY TRACKED AND FRAUD COULD EMERGE



IMPORTANT DATA MIGHT BE STOLEN AND CANNOT BE RETRIEVED







APPLY "DOUBLE LOCK" BY USING MOBILE PASSCODE FOR MOBILE ACCESS AND USE PASSWORD FOR APPLICATION LOG IN



DO NOT SAVE ANY PASSWORDS IN YOUR MOBILE



105 TURN ON

FIND MY 1PHONE THE APPLICATIONS THAT CAN BE LOGGED IN FROM BROWSERS TO LOCK OR RESET YOUR LOST **PHONE**



WHEN THE



NOTIFY THE APPLICATION SERVICE PROVIDERS SUCH AS *E-BANKING SERVICES* FOR SUSPENSION



CHANGE PASSWORDS FOR EVERY APPLICATION IN YOUR PHONE



TO TRACK CRIMINAL ACTIVITIES AND TO KEEP THE NOTIFICATION AS **EVIDENCE IN CASE CRIMINAL ACTIVITIES ARE COMMITTED VIA** YOUR PHONE



ACCESS FIND MY DEVICE OR FIND MY IPHONE TO

LIMIT THE ACCESS AND DELETE THE IMPORTANT DATA REMOTELY



















FREE APPS COSTLY EXPERIENCE



Remove untrusted apps which can exploit sensitive information from your smartphone



