

SGSECURE@WORKPLACE WEBINAR:

Cybersecurity – Adapting Business to the New Normal

Hoi Wai Khin, Stone Forest | CISSP, CISM, CDPSE, CRISC, CBCP, PSCMC, FCMI, ISO 27001 LA

31 August 2021

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Cyber Incident Case Study – The Background

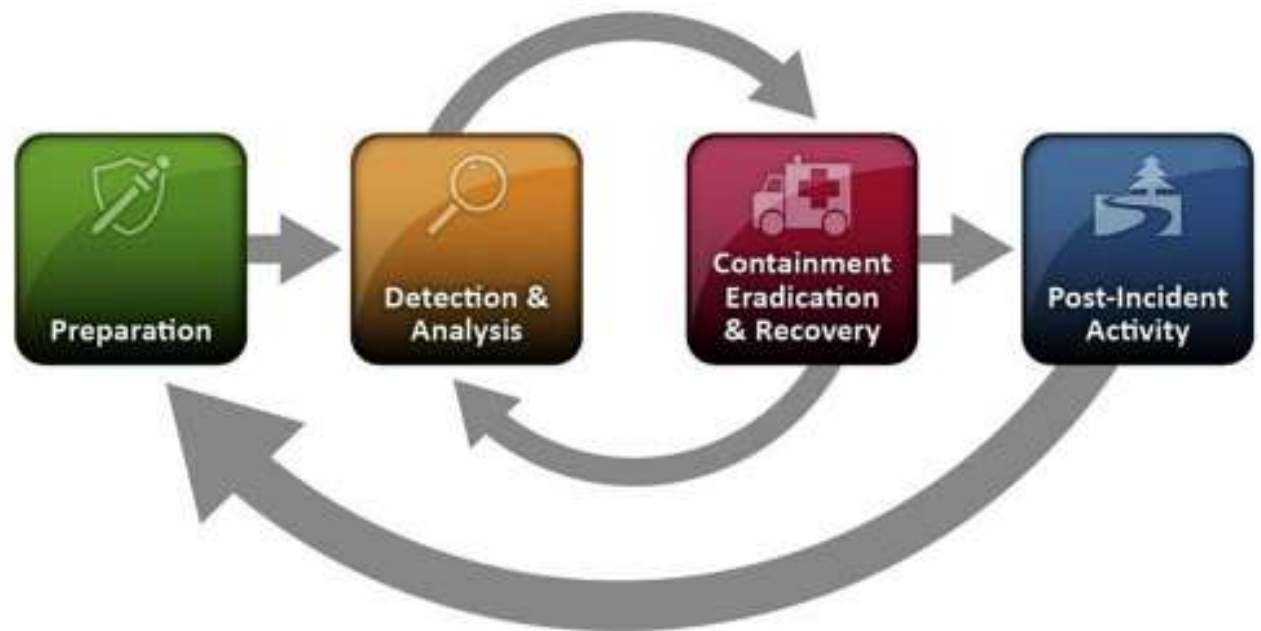
A client contracted us to perform a **forensic investigation into a cyber security breach.**

WHAT WE DID:

Conducted an analysis on the security incident following the **NIST Incident Response framework.**

OBJECTIVE:

This analysis aims to perform a triage on the incident so that a strategy can be provided on the next step for the client.



Source <https://www.nist.gov/cyberframework>

Incident #1 – Hela Ransomware

WHO: A listed company

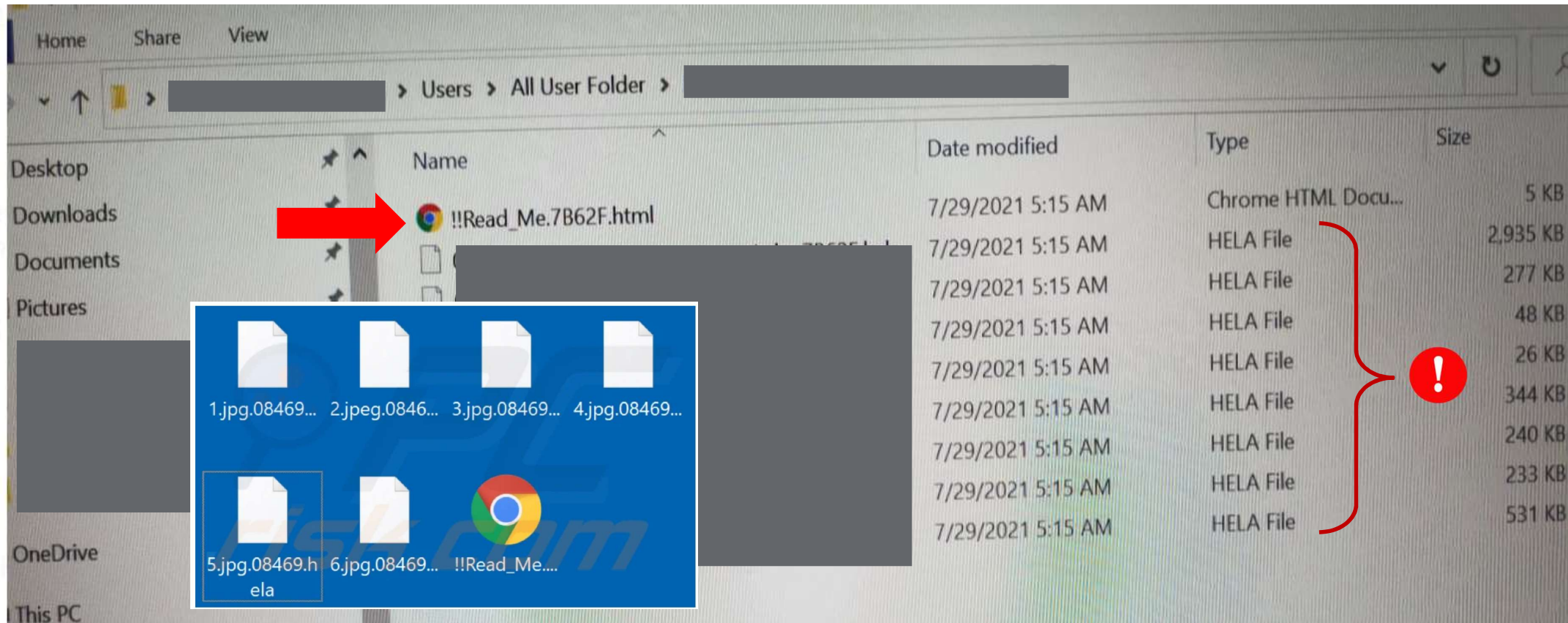
WHEN: 28 July 2021

WHAT HAPPENED:

- Users reported that they cannot login and access to the company network
- IT team checked and discovered that they was a large number of the files in the domain controller and network drive with an **‘.hela’ extension**
- Their domain controller is located on premise
- IT team later discovered that their backup drive on the same domain controller was also affected
- There was a **“!!Read_me.7B62F.html”** file

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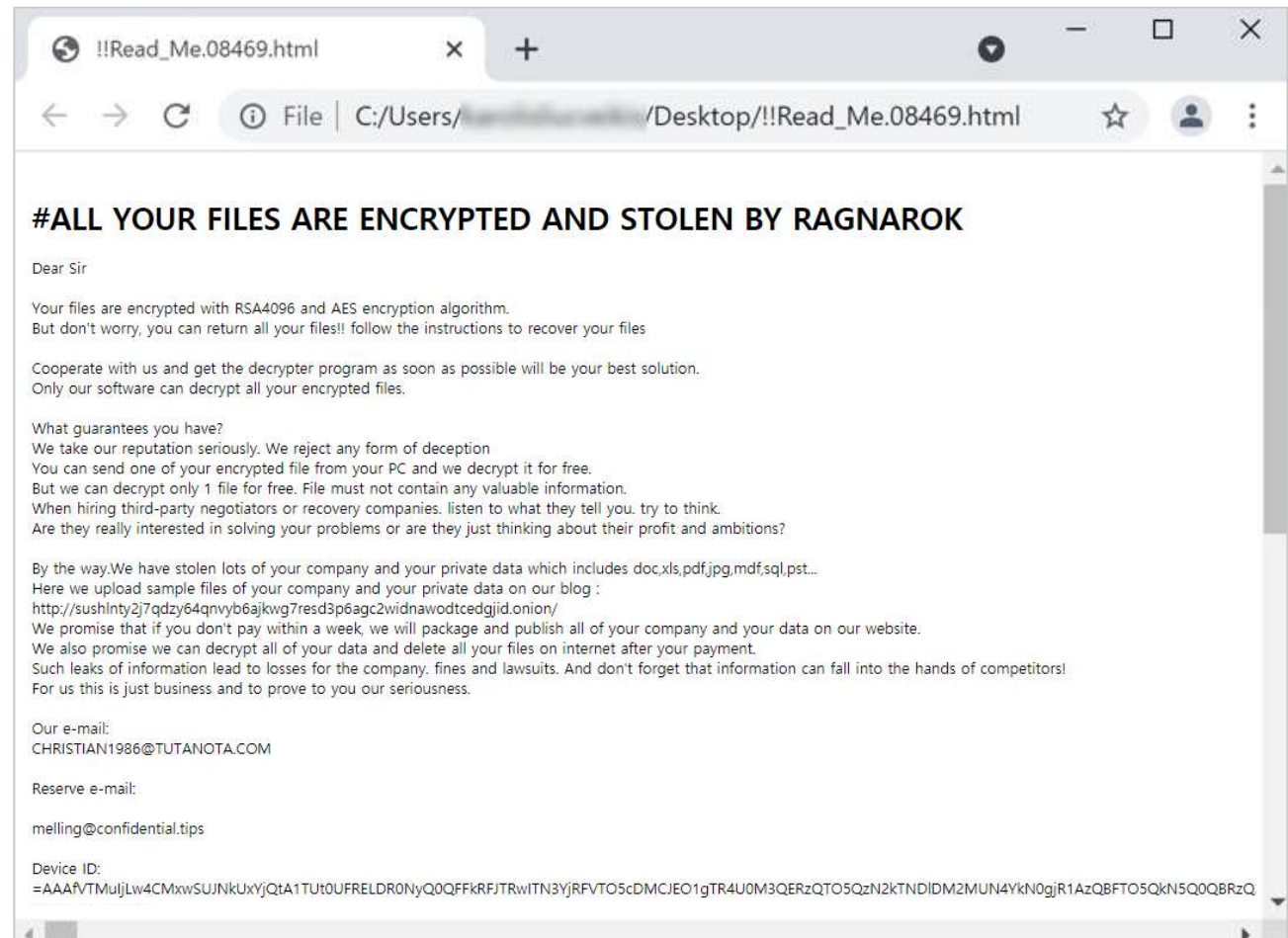
Incident #1 – Hela Ransomware Analysis



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Incident #1 – Hela Ransomware Analysis

IT clicked on the Read_me file and the message is as follows









**What to
do next?**



Firewall Analysis

We advised the IT team to check the firewall logs to determine if any data was copied out of the network. If personal data is involved, the company will need to inform PDPC.

DESTINATION	HITS	BYTES
[REDACTED] 8.201	1631 	15.09 GB 
[REDACTED] 6.9	602 	5.46 GB 
[REDACTED] 9.25	150 	2.9 GB 
[REDACTED] .206	60 	1.42 GB 
[REDACTED] 10.189	145 	1.4 GB 
[REDACTED] 9.80	8 	1.27 GB 
[REDACTED] 3.33	68 	1.12 GB 

Internet Research

We did a web research on the email address in the Read-me message

<https://www.pcrisk.com> › [removal-guides](#) › [21439-hela...](#) ▼

How to remove Hela Ransomware - virus removal steps

3 days ago — Cyber Criminal Contact, **CHRISTIAN1986@TUTANOTA.COM** and melling@confidential.tips. Symptoms, Cannot open files stored on your computer, ...
You visited this page on 30/7/21.

<https://medium.com> › ... ▼

[SoW] W5 July | EN | Story of the week: Ransomware on the ...

3 days ago — ... conducted through email without a separate chat page; Malware : 65c3956288e16bdcc55e3c9c6b94ba5b; Contact mail : **CHRISTIAN1986@TUTANOTA.COM**.

<https://medium.com> › ... ▼ [Translate this page](#)

[SoW] W5 July | KO | Story of the week ... - Medium

3 days ago — Malware : 65c3956288e16bdcc55e3c9c6b94ba5b; Contact mail : **CHRISTIAN1986@TUTANOTA.COM**. 돌아온 Ragnarok는 7월9일 첫 피해기업 업데이트 이...

<https://drdisklab.com> › [blog](#) › [ragnar...](#) ▼ [Translate this page](#)

Veri Kurtarma ve Analiz Hizmetleri - DrDisk Lab

İletişim : **CHRISTIAN1986@TUTANOTA.COM** ve melling@confidential.tips. AV Algısı : Win32:RansomX-gen [Ransom], Gen:Heur.Ransom.RentS.Gen.1, Win32/Kryptik.

christian1986@tutanota.com



<https://tutanota.com> › ... ▼

Безпечна електронна пошта: безкоштовна, захищена ...

Сервіс **Tutanota** - найбезпечніша у світі служба е-пошти, розроблена в Німеччині. Використовуйте шифровану е-пошту на всіх своїх пристроях за допомогою ...
Missing: ~~christian1986@~~ | Must include: **christian1986@**
You visited this page on 30/7/21.

<https://howtofix.guide> › [hela-virus](#) ▼

HELA (.hela Virus Files of Ransomware) — How to remove ...

This decryption tool is created by ransomware developers, and can be obtained through the email, contacting **CHRISTIAN1986@TUTANOTA.COM**.

Internet Research

Threat Summary:	
Name	Hela virus
Threat Type	Ransomware, Crypto Virus, Files locker
Detection Names	Avast (Win32:RansomX-gen [Ransom]), BitDefender (Gen:Heur.Ransom.REntS.Gen.1), ESET-NOD32 (A Variant Of Win32/Kryptik.HGSY), Kaspersky (HEUR:Trojan.Win32.DelShad.gen), Microsoft (Ransom:Win32/Ragnarok.PC!MTB), Full List Of Detections (VirusTotal)
Encrypted Files Extension	.[random_number].hela
Ransom Demanding Message	!!Read_Me.[random_number].html
Cyber Criminal Contact	CHRISTIAN1986@TUTANOTA.COM and melling@confidential.tips
Symptoms	Cannot open files stored on your computer, previously functional files now have a different extension (for example, my.docx.locked). A ransom demand message is displayed on your desktop. Cyber criminals demand payment of a ransom (usually in bitcoins) to unlock your files.
Distribution methods	Infected email attachments (macros), torrent websites, malicious ads.
Damage	All files are encrypted and cannot be opened without paying a ransom. Additional password-stealing trojans and malware infections can be installed together with a ransomware infection.
Malware Removal (Windows)	<p>To eliminate possible malware infections, scan your computer with legitimate antivirus software. Our security researchers recommend using Combo Cleaner.</p> <p style="text-align: center;">▼ Download Combo Cleaner</p> <p>To use full-featured product, you have to purchase a license for Combo Cleaner. 7 days free trial available.</p>



<https://medium.com/s2wlab/sow-w5-july-en-story-of-the-week-ransomware-on-the-darkweb-d142ea4a3fe2>

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Next Action Steps

Notification to relevant authorities on the cyber incident

- IT team reported the case to the **Singapore Police Force (“SPF”)** and **Cyber Security Agency (“CSA”)**
- The SPF proposed a list of decryptor tools to decrypt the files but it did not work
- The CSA informed the company that they will revert back again in a few days



Backup and recovery process

- We advised their IT team to perform a **cloud backup of their SaaS HR and Finance data**
- Their file server contained a lot of operational data which included Contracts, Projects files, Marketing data, etc.



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Next Action Steps

- IT updated the Board and Management that a lot of the files in the file server were encrypted with an '.hela' extension.
- These files consisted of the day-to-day internal business operations, HR details and customers personal details.

What will be your next
course of action?

The Story Continues

- IT tried to perform data restoration from their backup
- But discover that their backup had been also encrypted
- They did not receive any follow up email from the attackers demanding ransom
- STORY ENDING - **Company data is encrypted forever!**



Hot News

What is the biggest news on the internet NOW?

THE STRAITS TIMES

SINGAPORE

LOG I

Up to half of employees can return to their workplace from Aug 19



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Hot News

Previously, it was...

THE STRAITS TIMES

Uncovering the KTV 'butterfly' effect in Singapore as Covid-19 cluster grows to 88 cases



KTV lounges remain popular with men aged between 20 and 50. ST PHOTO: NG SOR LUAN

THE STRAITS TIMES

KTV and Jurong Fishery Port Covid-19 clusters linked: Ong Ye Kung



Health Minister Ong Ye Kung said that the two clusters differ genetically from the Delta variant that infected people in the Tan Tock Seng Hospital and Changi Airport clusters. ST PHOTOS: GUY TAY; MARK DEFRANCO

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Hot News

Just a few MONTHS ago

The New York Times

Cyberattack Forces a Shutdown of a Top U.S. Pipeline

The operator, Colonial Pipeline, said it had halted systems for its 5,500 miles of pipeline after being hit by a ransomware attack.



TECH TO TABLE

JBS cyberattack: From gas to meat, hackers are hitting the nation, and consumers, where it hurts

PUBLISHED WED, JUN 2 2021-1:19 PM EDT | UPDATED FRI, JUN 4 2021-1:38 PM EDT



Eric Rosenbaum
@ERPROSE

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KEY POINTS

- The ransomware attack on meat processing giant JBS raises the issue of food security as a national security threat caused by criminal hacking.

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Hot News

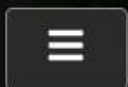


Another big company hit by a ransomware attack



By [Brian Fung](#), CNN Business

Updated 1855 GMT (0255 HKT) August 11, 2021



THE CHANNEL CO.
CRN

Ransomware Group Demanding \$50M In Accenture Security Breach: Cyber Firm

Accenture is not confirming the ransom demand. 'At the end of the day, paying the ransom is never a good idea,' one solution provider CEO told CRN.

By [Kyle Alspach](#)

August 12, 2021, 01:16 PM EDT

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Started a Long Time Ago

THE STRAITS TIMES

Scam linked to Covid-19: Victims lose \$110k to fake officials

🕒 PUBLISHED APR 14, 2020, 5:00 AM SGT

Scammers stole more than \$110,000 in a new Covid-19-related ruse in which callers impersonate staff from the Ministry of Health (MOH) before referring victims to purported officials from China.

Source : <https://www.straitstimes.com/singapore/courts-crime/scam-linked-to-covid-19-victims-lose-110k-to-fake-officials>

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Incident #2

WHAT HAPPENED:

- CEO received an anonymous email with **personal data of 5 senior members**. These included their addresses, phone numbers, emails, and date of births.
- Head of IT was asked to investigate and there were no abnormal activities.
- There were abnormal incoming and outgoing traffic information on the logs.
- CEO received a **2nd anonymous email with a link to a video file**.
- IT downloaded the file onto a standalone computer and clicked on the video file.
- The video plays showing that the attacker have access to a spreadsheet that contained all their customer information and internal HR information.
- CEO received a **3rd anonymous email that asked for 2 bit coins within 24 hours**. If not, their confidential data would be released on the dark web.



Should you pay the ransom?

SingCERT **does not recommend** paying the ransom. Doing so does not guarantee that the data will be decrypted or that your data will not be published by threat actors.

It also encourages the threat actors to continue their criminal activities and target more victims. Threat actors may also see your organisation as a soft target and may strike again in the future.

Impact

- **Personal information** related to HR or any others could be compromised and this could be a violation of the **Personal Data Protection Act**. If there is a confirmed compromise of personal data, the DPO will need to activate the data breach response plan and notify PDPC within 3 calendar days if there is a material impact.
- **Confidential financial information** could be compromised and this could be used to the advantage of the attacker and this could be a violation of the **SGX listing Act on “Insider trading”**.
- **Confidential business/operation information** could be compromised and this might be disadvantage to the company if there is/are any **potential business collaboration activities**.



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Security Tips



Make sure you **protect all personal information**, not only yours but those that you are handling as well



Do not send to your personal account any confidential information



Protect your personal email account with **2FA**

Vendor Considerations

THE STRAITS TIMES

TECH

Personal data of 30,000 users of NTUC's e2i training and job matching services may have been breached

The institute said that it was alerted to a data incident on March 12 in which a malware had infected the mailbox of an employee of an e2i-appointed third party vendor, contact centre services firm i-vic International.

The malware is often distributed through spam e-mail and is able to hinder analysis and evade detection.

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Hot News



REUTERS®

July 6, 2021

5:11 PM +08

Last Updated 14 days
ago

Technology

Up to 1,500 businesses affected by ransomware attack, U.S. firm's CEO says

WASHINGTON, July 5 (Reuters) - Between 800 and 1,500 businesses around the world have been affected by a ransomware attack centered on U.S. information technology firm Kaseya, its chief executive said on Monday.

Hot News

THE STRAITS TIMES

SINGAPORE

LOG IN ST SUBSCR

All 12 Ho Kee Pau outlets closed after pest infestation found at supplier's premises



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CSA Cyber Security Landscape 2020



The below key malicious cyber activities in 2020 are referenced from the Cyber Security Agency Singapore Cyber Security Landscape 2020 report.

Key malicious cyber security threats	Descriptions	Risk index
Ransomware	89 ransomware cases were reported to CSA in 2020, a sharp rise of 154 per cent from the 35 cases reported in 2019. The cases affected mostly Small-and-Medium Enterprises (SMEs), and hailed from sectors such as manufacturing, retail and healthcare.	High
Malicious Command and Control (C&C) Servers & Botnet Drones	CSA detected about 6,600 botnet drones with Singapore IP addresses daily, an increase from 2019's daily average of 2,300. Variants of the Mirai and Gamarue malware were prevalent among infected botnet IP addresses in 2020, with Mirai malware, which primarily targets Internet-of-Things (IoT) devices, staying strong due to the continuing growth of IoT devices locally.	Low
Phishing	Globally, 2020 saw a surge in COVID-19-related phishing campaigns. COVID-19 themes very likely accounted for over 4,700 of malicious URLs spoofing local entities and services that were in greater demand during Singapore's circuit breaker period, which included online retail and payment portals.	High

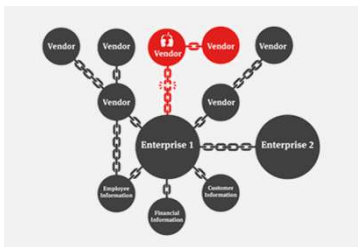
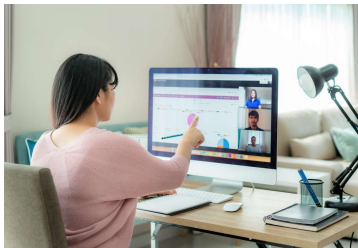
CSA Cyber Security Landscape 2020



The below key malicious cyber activities in 2020 are referenced from the Cyber Security Agency Singapore Cyber Security Landscape 2020 report.

Key malicious cyber security threats	Descriptions	Risk index
Website Defacements	495 '.sg' websites were defaced in 2020, a decrease of 43 per cent from 873 in 2019. The majority of victims were SMEs, and no government websites were affected. The significant fall in 2020 is consistent with global trends and suggests that activist groups could have chosen other platforms with potentially wider reach (e.g. social media) to embarrass their victims.	Moderate
Cybercrime	Online cheating2 cases made up the top cybercrime category in Singapore, recording a rise of almost 62 per cent from 7,580 cases in 2019, to 12,251 cases in 2020. This trend is attributed to the rapid growth of e-commerce	Low

Anticipated Cybersecurity Trends



The report highlighted several emerging cybersecurity trends to watch against the backdrop of an increasingly complex and dynamic cyber threat landscape. Near-term trends include:

(a) Evolving Traits of Ransomware Attacks. Ransomware has evolved into a massive and systemic threat, and is no longer restricted to the sporadic and isolated incidents observed. Globally, the recent spate of high-profile ransomware incidents affecting essential service providers and key firms – such as the fuel pipeline company Colonial Pipeline (United States) and meat processing company, JBS (Brazil) - have demonstrated that the attacks could cause real-world effects and harm, and may have the potential to become national security concerns. The proliferation of such attacks spells an urgency for businesses to review their cybersecurity posture and ensure that they build their systems to be resilient in recovering from any successful cyber-attacks.

(b) Targeting of Remote Workforce. Social distancing measures during the COVID-19 pandemic have led to the rapid adoption of remote working. However, poorly configured network and software systems - which are part of the new remote work ecosystems - have widened the attack surface and exposed organisations to greater risk of cyber-attacks.

(c) Increased Targeting of Supply Chains. A successful breach in the supply chain, as seen in the high-profile SolarWinds supply-chain breach at the tail end of 2020, provided cyber threat actors a single pivoting point to multiple victims. While such attacks are not new, they are becoming more sophisticated. The compromise of a trusted supplier or software can result in widespread repercussions worldwide, as victims could include major vendors with huge customer bases.

Overview of Cyber Threats in 2020



CYBERCRIME IN SINGAPORE

16,117

Cybercrime cases accounted for

43%

of overall crime in 2020



ONLINE CHEATING

2020: **12,251**

2019: **7,580**

2018: **4,928**



COMPUTER MISUSE ACT

2020: **3,621**

2019: **1,701**

2018: **1,207**



CYBER EXTORTION

2020: **245**

2019: **88**

2018: **60**

WEBSITE DEFAACEMENTS

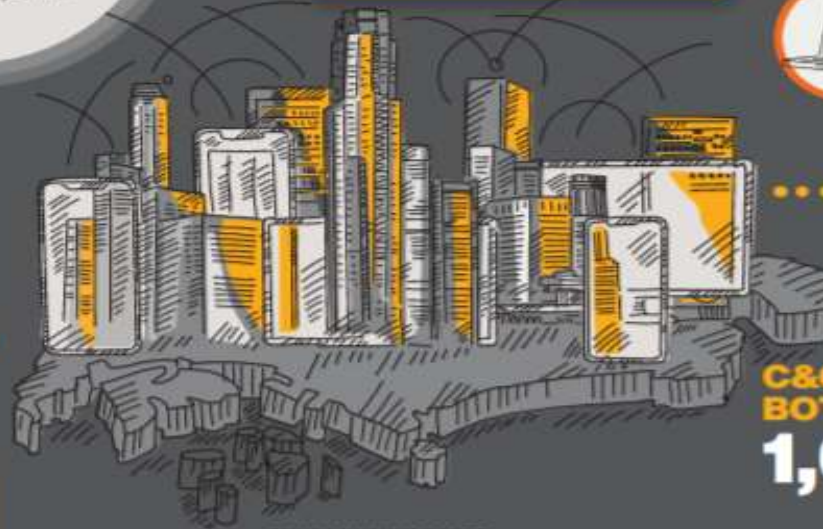
495

.sg websites were defaced, a sharp decrease of 43% from 873 cases in 2019

RANSOMWARE

89

ransomware cases were reported to CSA, with cases hailing from the manufacturing, retail and healthcare sectors. This was a significant rise of 154% in cases over the whole of 2019



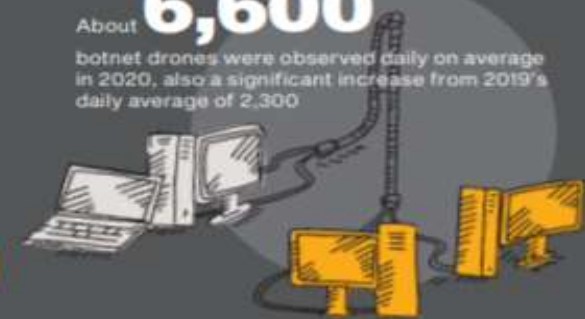
C&C SERVERS AND BOTNET DRONES

1,026

unique and locally hosted C&C servers were discovered, a spike from 530 recorded in 2019

About **6,600**

botnet drones were observed daily on average in 2020, also a significant increase from 2019's daily average of 2,300



PHISHING

47,000

phishing URLs with a Singapore-link were detected. A slight decrease of 1% as compared to 2019



NUMBER OF CASES SINGCERT HANDLED IN

2020: **9,080**

2019: **8,491**

1. URL's - Uniform Resource Locators, subsequently termed with addresses.

COMMONLY SPOOFED GOVERNMENT ORGANISATIONS IN SINGAPORE:

- MINISTRY OF EDUCATION (MOE)
- MINISTRY OF MANPOWER (MOM)
- SINGAPORE POLICE FORCE (SPF)

COMMONLY SPOOFED SECTORS



TECHNOLOGY



BANKING AND FINANCIAL SERVICES



SOCIAL NETWORKING FIRMS

AMAZON, PAYPAL AND FACEBOOK WERE COMMONLY SPOOFED BRANDS

COVID-19 Impact

INTERPOL

Who we are

Crimes

How we work

Our partners

What you can do

News

Wanted persons

E

Home > News and Events > News > 2020 > INTERPOL report shows alarming rate of cyberattacks during COVID-19

Shift in targets from individuals to governments and critical health infrastructure

An INTERPOL assessment of the impact of COVID-19 on cybercrime has shown a significant target shift from individuals and small businesses to major corporations, governments and critical infrastructure.

With organizations and businesses rapidly deploying remote systems and networks to support staff working from home, criminals are also taking advantage of increased security vulnerabilities to steal data, generate profits and cause disruption.

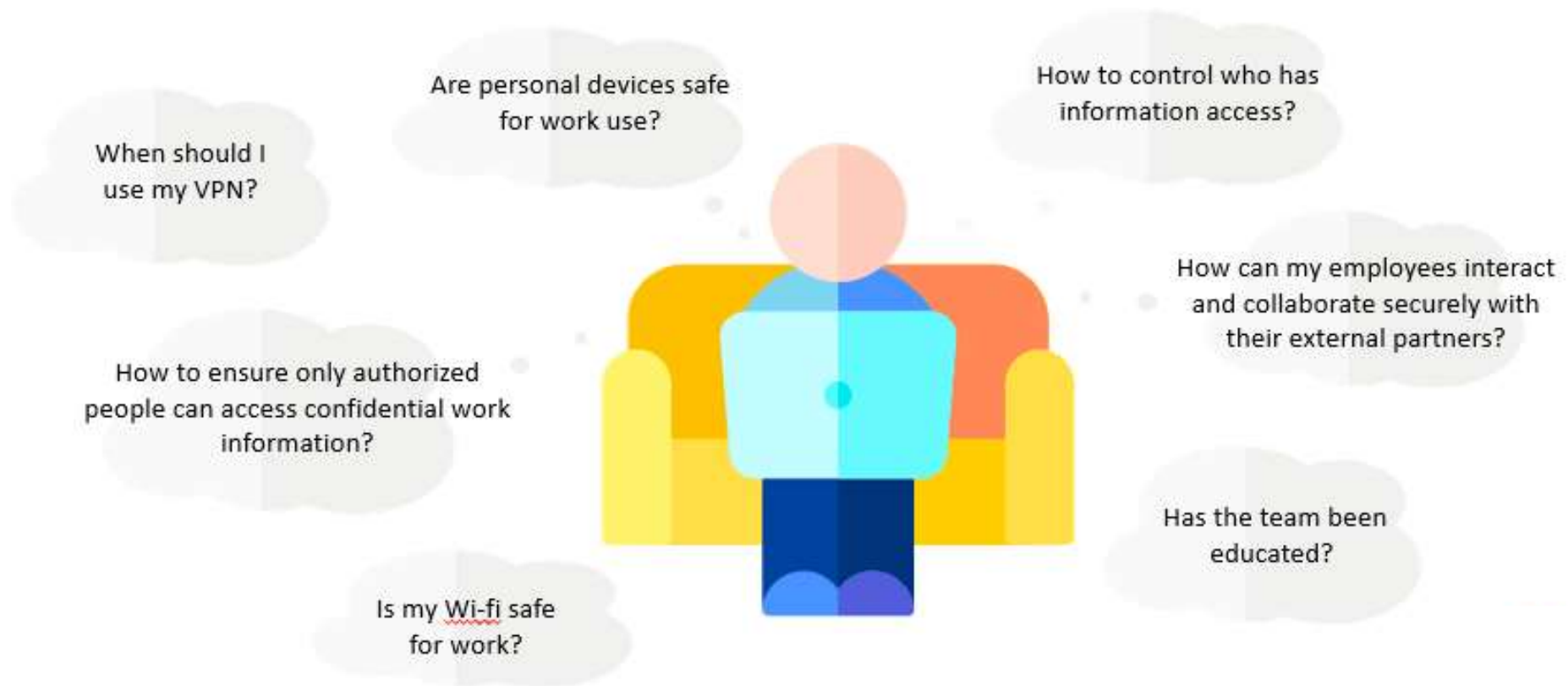
In one four-month period (January to April) some 907,000 spam messages, 737 incidents related to malware and 48,000 malicious URLs – all related to COVID-19 – were detected by one of INTERPOL's private sector partners.

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Are you able to IDENTIFY a
phishing or fake email?

If unsure, please VERIFY!

WFH Risks



WFH Risks



Hacking Wi-Fi is child's play! 7-year-old shows how easy it is to break into a public network in less than 11 MINUTES

Just two days after an investigation revealed how much personal information public Wi-Fi networks can 'suck' from phones, a child has shown how easy the hotspots are to hack.

A seven-year-old broke into a Wi-Fi hotspot in just 10 minutes and 54 seconds after watching an online video tutorial.

The ethical hacking demo was carried out under the supervision of an online security expert to highlight just how vulnerable the networks are.



Betsy Davies (pictured) watched an online video tutorial before being asked to hack into a Wi-Fi hotspot. It took the seven-year-old 11 minutes to infiltrate the network by setting up a rogue access point - frequently used by attackers to activate a 'man in the middle' attack, and begin eavesdropping on - or 'sniffing' - traffic

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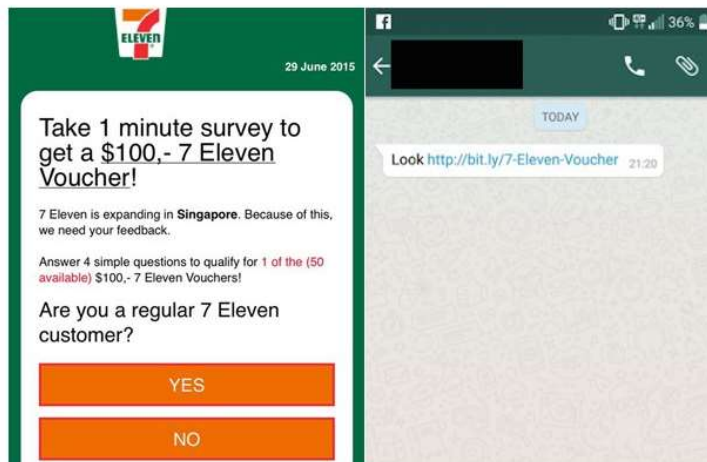
When you are working from home,
ensure **PASSWORD CONTROL**
to connect to your **WIFI**?

Ensure **ENCRYPTION** is enabled.

Collaboration Tools Risk

A nasty malware masking as a 7-Eleven voucher is spreading via WhatsApp in S'pore

JUNE 30, 2015 PUBLISHED AT 7:16 PM
[VULCAN POST](#)



ST SINGAPORE POLITICS ASIA WORLD MULTIMEDIA LIFESTYLE FORUM OPINION BUSINESS SPORT

SINGAPORE > Courts & Crime Education Housing Transport Health Manpower Environment

Man in row with bank over hacked phone



System update in progress. Please wait," read the prompt on Mr Philip Joh's Samsung Galaxy Note 4 smartphone last September. Thinking nothing of it, he went to bed.

Meanwhile, hackers got hold of his credit card details. Six flight tickets were purchased in Eastern Europe - from countries including Russia, Estonia and Latvia. The total price was \$12,327.

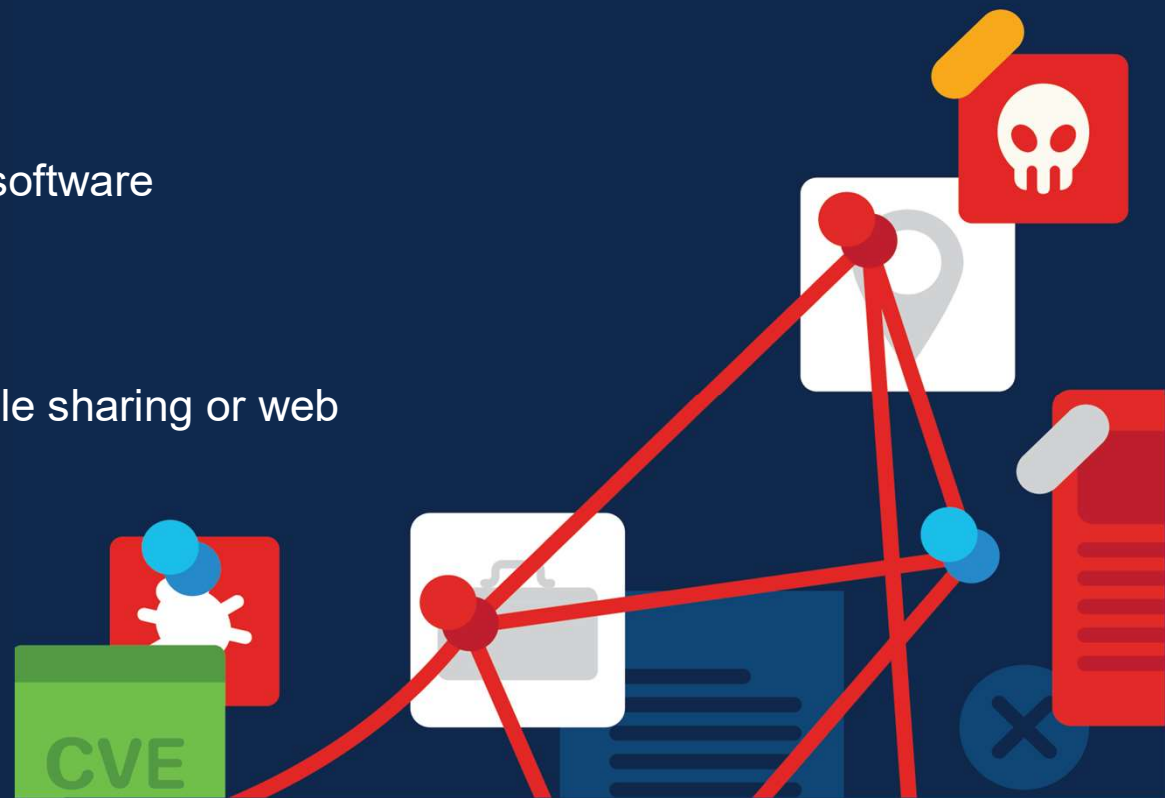
Now the 47-year-old first aid trainer is entangled in a dispute with United Overseas Bank (UOB) as he tries to get the charges waived.

JAN 27, 2016

DOUDLE VERIFY with the sender
if you are asked to click or
download any links or files.

How to Keep Malicious Software Off My Computer?

- ✓ Be suspicious
- ✓ Comply with security policies and procedures
- ✓ Never disable or tamper with virus protection software
- ✓ Always scan files from external storage media
- ✓ Never re-configure your computer to provide file sharing or web application services
- ✓ Report any suspicious programs found running on your PC



As a General Good Practice



DO NOT open any files
and/or click on links from
unknown email



If you received such
email, please
immediately delete
the email



If in doubt, **check**
with your local IT
support

Cyber Risks

THE STRAITS TIMES



Personal info of 1.5m SingHealth patients, including PM Lee, stolen in Singapore's worst cyber attack



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Technology Risks



WORLD NEWS JUNE 6, 2019 / 11:55 AM / 2 MONTHS AGO

U.S. finds American guilty in Singapore HIV data leak case

SINGAPORE (Reuters) - A U.S. citizen who leaked the names of more than 14,000 HIV-positive people in Singapore has been found guilty by a U.S. court of illegally transferring personal data and threatening the Singapore government, court filings



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Information Risks

≡ THE STRAITS TIMES

MAS probes case of UOB's unshredded client data



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PDPA Updates

Mandatory Data Breach Notification

Notification to PDPC

Likely to result in **significant harm** to an affected individual
or
Significant scale
(≥500 affected individuals)

Notification to AFFECTED INDIVIDUALS

Likely to result in **significant harm** to an affected individual

Exceptions to notify individuals

e.g. Remedial action was taken to reduce risk of significant harm, or when PD was encrypted to a reasonable standard

PD that is considered likely to result in **significant harm** to an individual when compromised

Individual's **full name or national identification number**



Any of the following:
Financial, medical, life/health insurance, vulnerable person, private key to authenticate or authorise a record or transaction

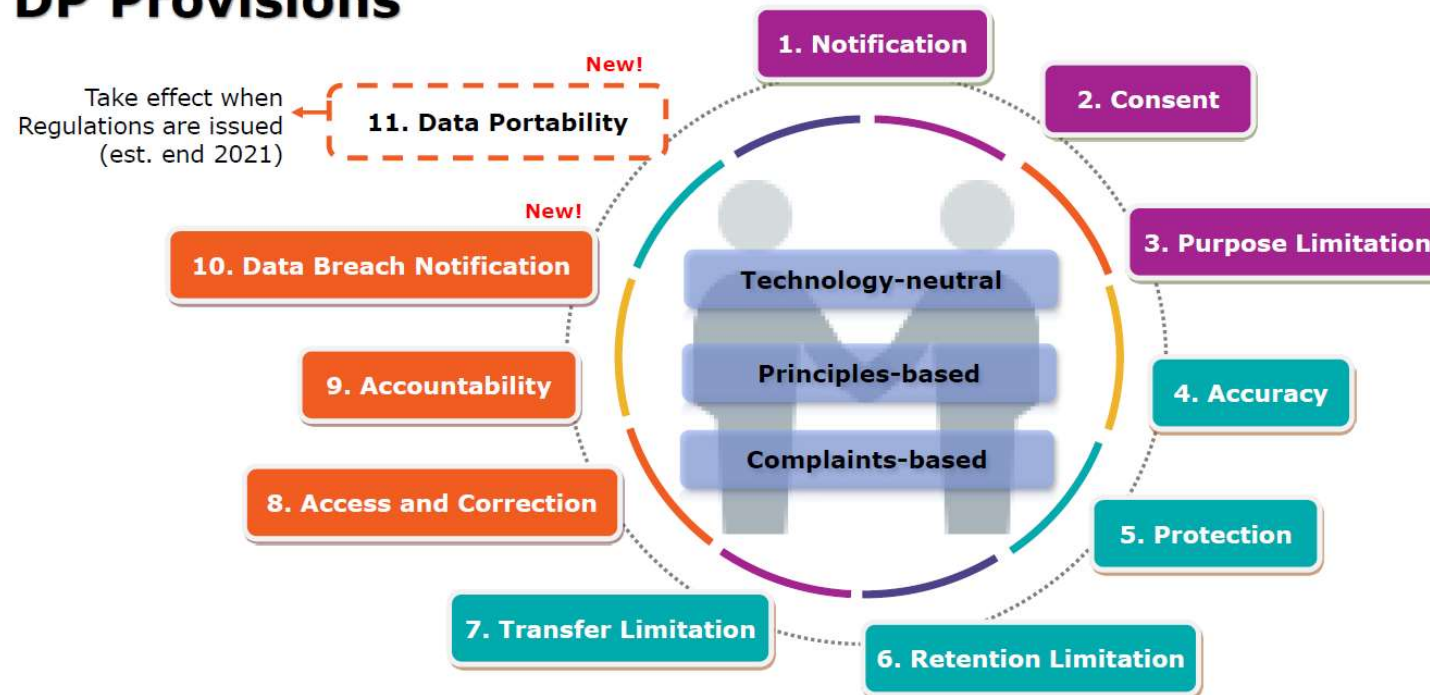
Individual's **account information**



Any of the following:
Biometric data, security / access code, password or answer to security question used to permit access to or use of an account

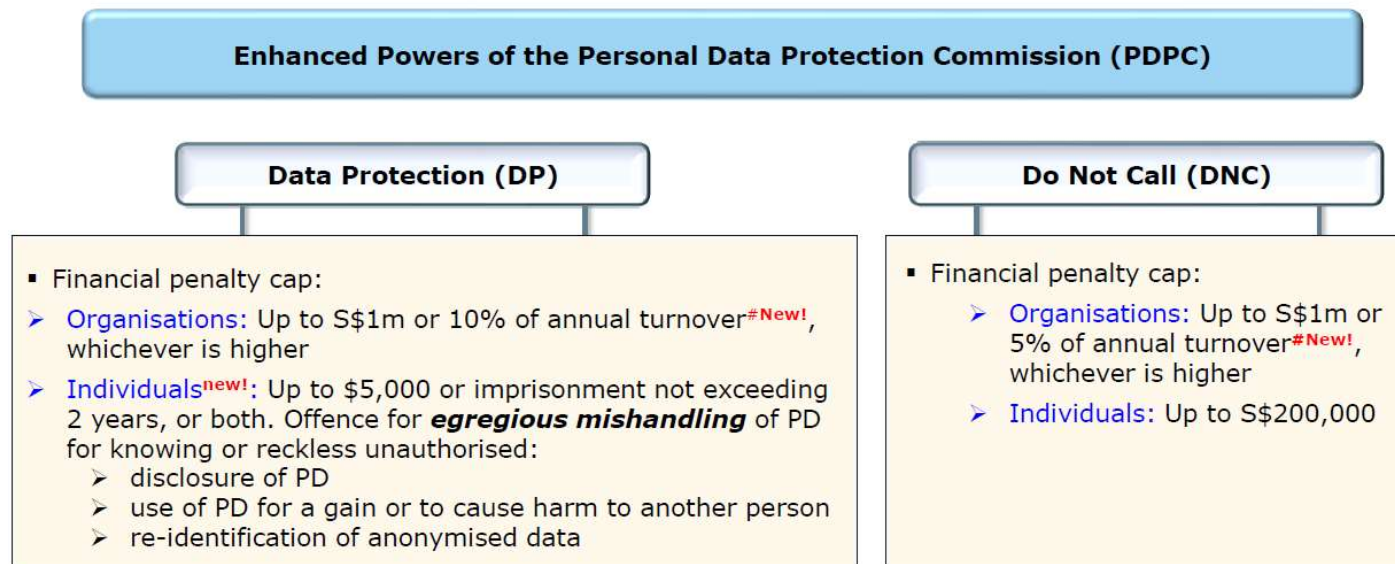
PDPA Updates

DP Provisions



PDPA Updates

Deter Irresponsible Behavior



Higher financial penalty caps will take effect no earlier than Feb 2022

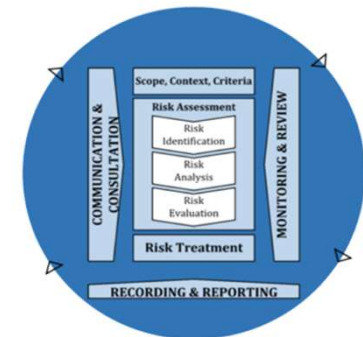
Important Things to Note



Cyber resilience involves **continuously strengthening the risk management process**



Constant education & awareness is required



Leverage on **auditor's experiences**

Cyber Insurance

Are you protected with cyber insurance?

Annual Revenue of the Insured	Gold Plan – Choice of Limit of Liability		
	Plan 1 (\$250,000)	Plan 2 (\$500,000)	Plan 3 (\$1,000,000)
\$1,000,000 and below	\$963	\$1,070	\$1,284
\$1,000,001 to \$2,500,000	\$1,070	\$1,391	\$1,712
\$2,500,001 to \$5,000,000	\$1,391	\$1,819	\$2,247
\$5,000,001 to \$10,000,000	\$1,819	\$2,354	\$2,996

Annual Revenue of the Insured	Gold Plan – Choice of Limit of Liability		
	Plan 1 (\$500,000)	Plan 2 (\$1,000,000)	Plan 3 (\$2,000,000)
\$1,000,000 and below	\$1,284	\$1,605	\$1,926
\$1,000,001 to \$2,500,000	\$1,605	\$1,926	\$2,461
\$2,500,001 to \$5,000,000	\$2,140	\$2,568	\$3,210
\$5,000,001 to \$10,000,000	\$3,210	\$3,638	\$4,280

Cyber Digital Footprint (Threat Intelligence/ Hunting)

Business Data Breach Report

173 stolen records

- Company scanned: [REDACTED]
- Cyber criminals are actively trading your client's stolen information.
- **42** current or former staff have had information stolen **173** times, an average of 4.1 times each.

Types of Information Stolen

- | | |
|--|---|
|  Stolen username |  Stolen personal information |
|  Stolen email address |  Stolen gender |
|  Stolen password |  Stolen address |
|  Stolen password salt |  Stolen country |
|  Stolen security question |  Stolen city |
|  Stolen credit card |  Stolen ID number |

Singapore's Push for Digitalisation

the newspaper

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SINGAPORE

Over \$500m to help digital transformation of companies

Under new Digital Resilience Bonus, F&B and retail firms could receive up to \$10,000 if they make the switch

 [Tatiana Mohamad Rosli](#)
 © May 27, 2020 06:00 am

More than 32,000 people have been infected in Singapore, leaving 23 dead. The Covid-19 pandemic has wreaked havoc here and across the globe, and upended all economies.



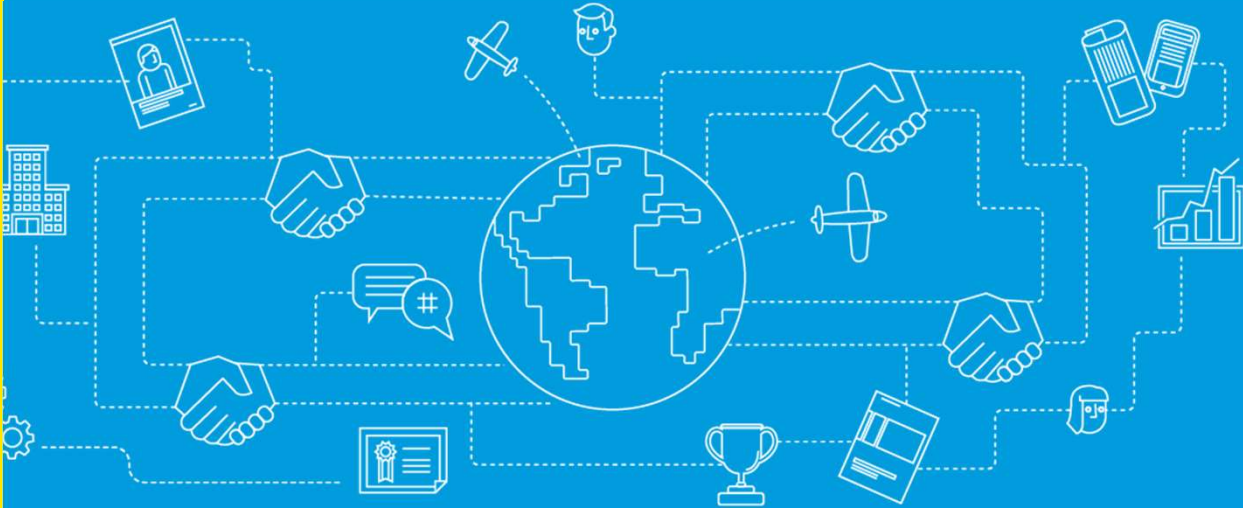
Stone Forest

In Conclusion

1. Support from the Boards, Directors and management is very important
2. Technology risk should always be part of the organisation risk management framework
3. Boards, Directors and Management must always try to stay abreast with the latest technology news and risks

If not, you will become another cyber breach statistic!





Thank you

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