

如何使用「香港社福界-資訊科技保安實務指南」

分享「資訊科技保安審計先導計劃」的觀察及經驗20/01/2022

Sean Tam Billy Ho







IT Security Practice Guide



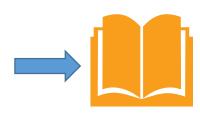
> To develop one (1) IT Security Practice Guide for all NGOs



One(1) for "Large NGOs"



One(1) for "Medium NGOs"



1 for all NGOs



One(1) for "Small NGOs"

> 3 security levels for different protection requirements

Elementary

Intermediate

Advanced







17 Security Domains

- 1. IT Security Governance
- 2. Password Control and Authentication
- 3. Websites and Web Applications
- 4. Data Management
- 5. Computer Networks Security
- 6. Email Security
- 7. Cloud Computing Security
- 8. Physical Security
- 9. Mobile Security

- 10. Remote Access/Work from Home
- 11. Security Risk Assessment and Audit
- 12. Insider Threats
- 13. Vendor Management
- 14. Awareness and Training
- 15. Incident Response
- 16. Business Continuity Management
- 17. Log Management and Monitoring







3 Security Level

Elementary

The basic good practices

Intermediate

More good practices will be covered

Advanced

The comprehensive good practices will be covered







3 Security Level

Rer	Remote Access/Work from Home									
Secu	ırity Level: E = Elementary, I = Intermediate, A = Advanced	E	Ι	A						
1	Access to your home computer's desktop and mobile devices should at least be password protected, and the password should be strong one.	1	1	1						
2	Update your personal devices antivirus solution with an updated signature and update your software and operating systems.		1	1						
3	Encrypt devices and other media that contain sensitive personal information. Includes laptops, tablets, smartphones, removable drives, and cloud storage solutions. Disk encryption or folder encryption also helps protect information on stolen or compromised computers.			1						





How can NGO choose the protection requirements?



Step1. Generic

Choose the **Overall Security Profile** for the organisation.

Step2. Specific

Assess the Security Level of critical systems.



High-level assess method



Precise assess method





Target State

Step1. Generic

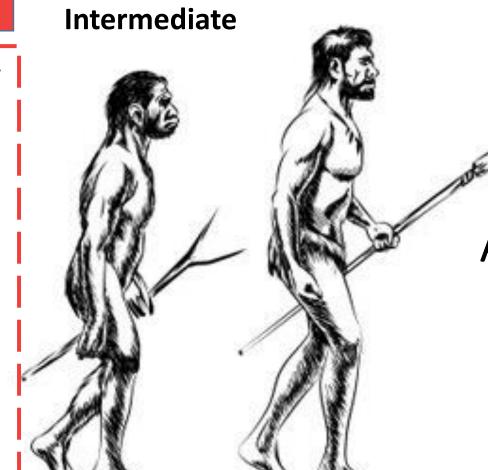
Choose the **Overall Security Profile** for the organisation.

Advanced



Basic





A Progressive Model





High-level assess method

Step2. Specific

Assess the **Security Level** of the critical systems.

Elementary

NGO should adopt the requirements of elementary security level to all assets.

Intermediate

NGO should adopt the requirements of intermediate security level to the assets which contain valuable and sensitive information.

Advanced

NGO should adopt the requirements of advanced security level to the high-risk assets, such as public internet facing, cloud platform, aged applications.





Precise assess method

Step2. Specific

Assess the **Security Level** of critical systems.

Risk Component & Security Score

NGO can use IT Asset valuation template to assess the security requirement of their systems accurately.

				Misk component & security score									
		Basic Information	IT Asset Attribute							(automatically determined)			
1	Asset No.	Asset Information	Location	Asset Value	Info. Classification (Confidentiality	Security Risk Assessment	Sys. Patches (Integrity)	Resilience (Availability)	Accessed By	Threat Level ▼	Consequence (Impact)	Probability (Likelihoo 🔻	Security Score
2	WAS-001	WebApp Internet Facing, Cross NGOs	NGO DC-001	High	Sensitive	Before Launch	Outdated	Backup	Own & Partners	High	Very High	High	▼ 13
3	WAS-002	WebApp Backend system (Confidentia	NGO DC-002	High	Confidential	Before Launch	Outdated	Backup	Own	High	Very High	Low	11
4	WAS-003	Website for Public	Public Cloud (Azure)	High	Public	Before Launch	Outdated	Backup	Public	High	Medium	Medium	10
5	SYS-001	YebApp for NGO & Public Users	Public Cloud (Azure)	High	Restricted	Before Launch	Outdated	Backup	Own & Public	High	High	Very High	13
6	SYS-002	Wex hp for Internal users	On-premises	Medium	Restricted	Periodically	Outdated	Backup	Own	Low	Medium	Low	7
7	SYS-003	WebApp sternal (Sensitive)	On-premises	Medium	Sensitive	Before Launch	Outdated	Backup	Own	High	High	Low	10
8	Mobile-001	Mobile App I Internal	Out Door	Medium	Restricted	Before Launch	Outdated	Not Available	Own	High	Medium	Medium	10
9	NGO-Data	NGO Proprietary fo.	NGO	Medium	Sensitive	Refore Launch	Outdated	Rackun	Own	High	High	Low	10

The system can be **one device (one IP address)** [more specific] or **a set of devices in a system** [more general].





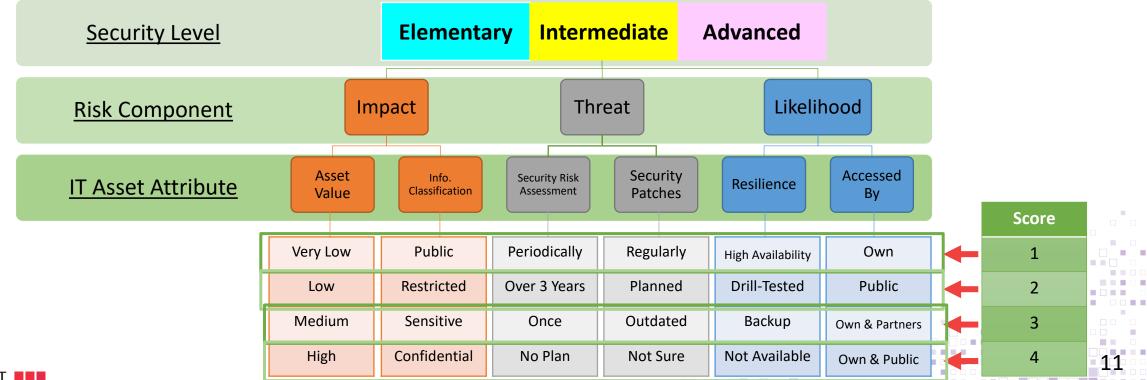
Precise assess method

Step2. Specific

Assess the Security Level of critical systems.

Based on the 6 attributes of IT assets to determine 3 measures of risk component: "Impact", "Threat" and "Likelihood".

Figure out 3 security level: "Elementary", "Intermediate", and "Advanced"





Risk Component

		Impact S	core:	Asset & Classification							
e	1	2	3	4	5						
S S	2	3	4	5	6						
ξ	3	4	5	6	7						
As	4	5	6	7	8						
		1	2	3	4						
			Information Classification								

Impact Level = Asset Value and Information Classification

		Threat So	ore: Update	& Risk Ass	essment					
	1	2	3	4	5					
ate	2	3	4	5	6					
Pd	3	4	5	6	7					
_	4	5	6	7	8					
		1	2	3	4					
		•	Security Risk Assessment							

Threat Level = Security Risk Assessment and System Update

		Probabili	ty Score:	Resilience &	Accessed by						
e	1	2	3	4	5						
en	2	3	4	5	6						
esilienc	3	4	5	6	7						
R	4	5	6	7	8						
		1	2	3	4						
			Accessed By								

Step2. Specific

Assess the Security Level of critical systems.

Security Level

Security Level	Impact + Threat + Likelihood
Elementary	Security Score: 3 ~ 7
Intermediate	Security Score: 8 ~ 11
Advanced	Security Score: 12 ~ 15



The IT Asset valuation template will **automatically** determine the Risk Component and Security Level





IT Asset Valuation List Template

		Designation IT Acces Attribute									Risk Component & Security Score (automatically determined)			
		Basic Information				IT Asset A	Attribute			(auto	matically	aetermi	nea)	
1	Asset No.	Asset Information	Location	Asset Valu	Info. Classification (Confidentiality	Security Risk Assessment	Sys. Patches (Integrity)	Resilience (Availability)	Accessed By	Threat Level 🔻	Consequence (Impact)	Probability (Likelihoo	Security Score	
2	WAS-001	WebApp Internet Facing, Cross NGO:	NGO DC-001	High	Sensitive	Before Launch	Outdated	Backup	Own & Partners	High	Very High	High	▼ 13	
3	WAS-002	WebApp Backend system (Confidenti	al NGO DC-002	High	Confidential	Before Launch	Outdated	Backup	Own	High	Very High	Low	11	
4	WAS-003	Website for Public	Public Cloud (Azure)	High	Public	Before Launch	Outdated	Backup	Public	High	Medium	Medium	10	
5	SYS-001	WebApp for NGO & Public Users	Public Cloud (Azure)	High	Restricted	Before Launch	Outdated	Backup	Own & Public	High	High	Very High	13	
6	SYS-002	WebApp for Internal users	On-premises	Medium	Restricted	Periodically	Outdated	Backup	Own	Low	Medium	Low	7	
7	SYS-003	WebApp Internal (Sensitive)	On-premises	Medium	Sensitive	Before Launch	Outdated	Backup	Own	High	High	Low	10	
8	Mobile-001	Mobile App for Internal	Out Door	Medium	Restricted	Before Launch	Outdated	Not Available	Own	High	Medium	Medium	10	
9	NGO-Data	NGO Proprietary Info.	NGO	Medium	Sensitive	Before Launch	Outdated	Backup	Own	High	High	Low	10	
10	NGOs-Data	NGO Shared Info.	G-Suite-Google	Medium	Sensitive	Before Launch	Planned	Not Available	Own	Medium	High	Medium	10	
11	NGO-Data-X	NGO Internal Data	On-premises	High	Restricted	No Plan	Outdated	Backup	Own	Very High	High	Low	11	
12	NGO-Data-XX	NGO Sensitive Data	On-premises	Medium	Sensitive	Before Launch	Outdated	Backup	Own	High	High	Low	10	
13	WEB-001	NGO Main Site	Cloud	Medium	Sensitive	Before Launch	Planned	Not Available	Public	Medium	High	High	11	
14	WEB-002	NGO Intranet	On-premises	Medium	Restricted	No Plan	Planned	Backup	Own	High	Medium	Low	9	
15	XFW-0001	10.10.1.1 / 225.128.1.1	HQ-DC-01	High	Confidential	Before Launch	Outdated	Not Available	Own	High	Very High	Medium	12	
16	HRS-1002	227.12.27.5	HRM-Azure-Cloud	Medium	Restricted	Occasional	Planned	Backup	Own	Low	Medium	Low	7	
17	FIN-1001	226.50.1.10	IMS-Azure-Cloud	Medium	Sensitive	Occasional	Planned	Backup	Own	Low	High	Low	8	
18	NGO-APP-001	NGO Application	HQ-DC-01	Medium	Restricted	Before Launch	Outdated	Not Available	Own	High	Medium	Medium	10	
19	IFS-HQ-DC-OA-01	10.10.20.100	HQ-DC-01	Medium	Restricted	No Plan	Outdated	Not Available	Own	Very High	Medium	Medium	11	
20	IFS-HQ-DC-CASE-01	10.10.20.101	HQ-DC-01	Medium	Restricted	No Plan	Outdated	Not Available	Own	Very High	Medium	Medium	11	
21	WEB-HQ-DC-01	10.10.1.10/225.128.1.2	Cloud AWS	Medium	Restricted	Before Launch	Planned	Not Available	Public	Medium	Medium	High	10	
22	IDB-HQ-DC-01	10.10.5.5	HQ-DC-01	High	Sensitive	Occasional	Outdated	Backup	Own	Medium	Very High	Low	10	
23	IDB-HQ-DC-02	10.10.5.6	HQ-DC-01	High	Restricted	Before Launch	Outdated	Backup	Own & Partners	High	High	High	12	
24	Financial Data	NGO Financial Data	HQ-DC-01	Medium	Sensitive	Occasional	Planned	Backup	Own	Low	High	Low	8	
25	HR Data	NGO HR Data	HQ-DC-01	Medium	Restricted	Occasional	Planned	Backup	Own	Low	Medium	Low	7	
26	NGO Broad Data	NGO Broad Data	HQ-DC-01	Medium	Confidential	Occasional	Planned	Backup	Own	Low	Very High	Low	9	
27	Guest-WiFI	NGO Guest WiFi	HQ Main Hall	Very Low	Public	No Plan	Not Sure	Not Available	Public	Very High	Very Low	High	10	



Asset Value Info. Classification Security Risk Assessment

Security Patches

Resilience

Accessed By



Asset Value

The primary assets:

[more specific]
one device (one IP address)

[more general]a set of devices in a system

Level	Score	Description
Very Low	1	Require little effort or cost to recover, no impact to the organization.
Low	2	Cost of recovery acceptable, causing slight inconvenience or some embarrassment.
Medium	3	Moderate resources or effort to recover, financial and reputation loss are noticeable.
High	4	Significant financial or great effort to recover, loss of key asset or capability required carrying out services.

- 4	A	В	F	G	П	1	J	Ν.	L	IVI	IN	0
	Asset No Asset Information		Asset Value	Info. Classification	Security Risk	Sys. Update	Resilience	Accessed By —	Threat	Consequence	Probability	Security
1	ASSECTIO V	Asset information	Asset valo	(Confidentiality_	Assessment 💌	(Integrity) 🔻	(Availability) 🔻	Accessed By	Level 🔻	(Impact) 🔻	(Likelihoo 🔨	Score 🔻
2	WAS-001	WebApp Internet Facing, Cr	High	Sensitive	Over 3 Years	Planned	Backup	Own & Partners	Low	Very High	High	11
3	WAS-002	WebApp Backend system (Co	High	Confidential	Once	Planned	Backup	Own	Medium	Very High	Low	10
4	WAS-003	Website for Public	High	Public	Once	Outdated	Backup	Public	High	Medium	Medium	10
5	SYS-001	WebApp for NGO & Public U	High	Restricted	Once	Outdated	Backup	Own & Public	High	High	Very High	13
6	SYS-002	WebApp for Internal users	Medium	Restricted	Periodically	Outdated	Backup	Own	Low	Medium	Low	7
7	SYS-003	WebApp Internal (Sensitive)	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10
8	Mobile-001	Mobile App for Internal	Medium	Restricted	Once	Outdated	Not Available	Own	High	Medium	Medium	10
9	NGO-Data	NGO Proprietary Info.	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10



Security Risk Assessment

Security Patches

Resilience

Accessed By



Information Classification (Confidentiality)

Level	Score	Description
Public	1	Information that are not sensitive and there is no issue with release to the general public i.e. organization website.
Restricted	2	Information only to be accessed internally or with third parties that have signed a non-disclosure agreement i.e. organisation email, policies, and procedures etc.
Sensitive	3	Information only to be accessed by the specified group i.e. organization financial information, clients' sensitive information.
Confidential	4	Information which, if disclosed to unauthorized persons (internal/external) could cause material harm to the organization i.e. information that could result in the loss of competitive advantage or reputation.

	Α	В	F	G	Н	1	J	К	L	М	N	0
	Asset No Asset Information		Asset Value	Info. Classification	Security Risk	Sys. Update	Resilience	Accessed By	Threat	Consequence	. <u>.</u>	Security
1	<u> </u>	·	· ·	(Confidentiality <u></u>	Assessment 💌	(Integrity) 🔻	(Availability) 🔻	<u> </u>	Level 💌	(Impact)	(Likelihoo 🔨	Score 💌
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9	NGO-Data	NGO Proprietary Info.	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10



Security Risk Assessment

Security Patches

Resilience

Accessed By



Security Risk Assessment

Score	Security Risk Assessment
1	Periodically
2	Over 3 Years
3	Once
4	No Plan

- 4	Α	В	F	G	Н	1	J	K	L	M	N	0
	Asset No	Asset Information	Asset Value	Info. Classification	Security Risk	Sys. Update	Resilience	Accessed By —	Threat	Consequence		Security
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8	Mobile-001	Mobile App for Internal	Medium	Restricted	Once	Outdated	Not Available	Own	High	Medium	Medium	10
9	NGO-Data	NGO Proprietary Info.	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10



Security Risk Assessment

Security Patches

Resilience

Accessed By



System Update (Integrity)

Rate	System Patches Update
1	Regularly
2	Planned
3	Outdated
4	Not Sure

	Α	В	F	G	Н	1	J	К	L	М	N	0
	Asset No	Asset Information	Asset Value	Info. Classification	Security Risk	Sys. Update	Resilience	Accessed By	Threat	Consequence		Security
1	*	_	~	(Confidentiality **	Assessment 💌	(Integrity) 🔻	(Availability)		Level 🔻	(Impact) 🐣	(Likelihoo 🔨	Score *
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9	NGO-Data	NGO Proprietary Info.	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10
						<u> </u>					1	



Security Risk Assessment

Security Patches

Resilience

Accessed By



Resilience (Availability)

Rate	System Resilience
1	High Availability
2	Drill Tested
3	Backup
4	Not Available

	Α	В	F	G	Н	I	J	K	L	M	N	0
	Asset No	Asset Information	Asset Value	Info. Classification	Security Risk	Sys. Update	Resilience	Accessed By —	Threat	Consequence	<u>, </u>	Security
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9	NGO-Data	NGO Proprietary Info.	Medium	Sensitive	Once	Outdated	Backup	Own	High	High	Low	10



Security Risk Assessment

Security Patches

Resilience

Accessed By



Accessed By Whom

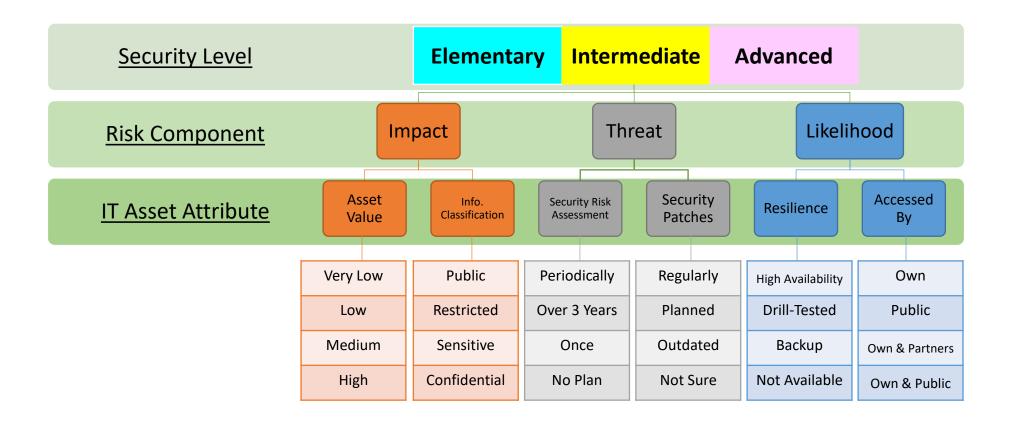
Level	Rate	Description
Own	1	Organisation internal access only.
Public	2	Open for public access
Own & Partners	3	Grant access to NGO, affiliated NGOs and/or third parties organisations.
Own & Public	4	Allow NGO and registered persons access with limited authority i.e. NGO membership portal.

- 4	Α	В	F	G	Н	I	J	K	L	M	N	0
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Precise assess method







Asset No.

1

Example

IT Asset Attribute

Database Security

Asset Value	Info. Classification	Security Risk Assessment	System Patches	Accessed By	Resilience
High	Confidential	No Plan	Outdated	Own	Backup

Step 1. Fill in the basic information in **IT Asset Valuation List**

Basic Information

Asset Info.

Internal Database

Step 2. Fill in the IT Asset Attributes in IT **Asset Valuation List**

Location

On-premises

	Secu	rity Level: E = Elementary, I = Intermediate, A = Advanced	E	1	А	
	1	Access to the database must be securely controlled.	V	✓	V	
	2	Whether your database server is on-premise or in a cloud data centre, it must be located within a secure, climate-controlled environment.	V	√	~	
,	3	Always be aware of who is accessing the database and when and how the data is being used. Data monitoring solutions can alert you if data activities are unusual or appear risky.		√	~	
	4	All backups, copies, or images of the database must be subject to the same (or equally stringent) security controls as the database itself.		√	~	
	5	Always use the latest version of the database management software and apply all patches as soon as they are issued.			~	•
	6	Secure Data at Rest: Encrypt personal data stored in a database, in particular data which has a higher risk of harm to or which would adversely impact the relevant individuals in the event that it is compromised. • Encrypt storage (i.e.: Bitlocker, Databases (TDE) etc.) • Encrypt passwords and other configuration settings			*	
		Secure Data in Transit: Enable database encryption services: Enable network level encryption protocols Virtual Private Network (SSL / IPSec)				
	7	Log all unauthorised and anomalous database activities, so that these activities can be tracked and analysed.			~	



Risk Component & Security Score

Impact	Threat Level	Likelihood	Security Score
Very High	Very High	Low	12

Step 4. Based on the security levels, follow the corresponding security recommendations on each covered area.

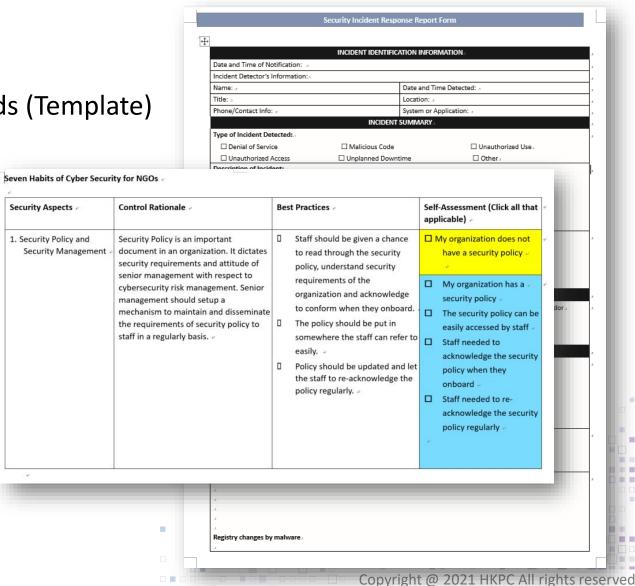






Checklists and Templates

- IT Asset Valuation List Template
- Security Incident Response Form and Records (Template)
- Vendor Risk Assessment Checklist
- Security Audit Checklist Template
- Seven Habits of Cyber
- Security Risk Assessment Guidelines



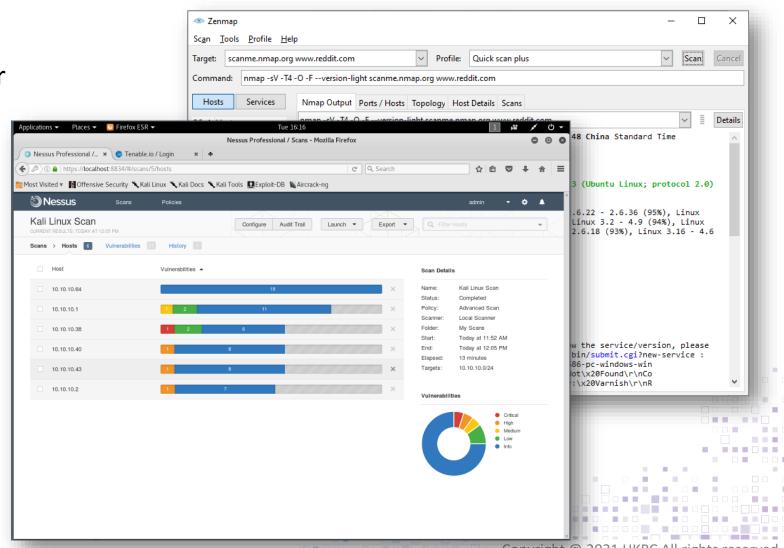






Security Risk Assessment Tools

- WinAudit
- NMap/Zenmap Security Scanner
- Nessus Essentials
- OWASP Zed Attack Proxy (ZAP)
- Kali Linux
- Logging Made Easy
- VeraCrypt







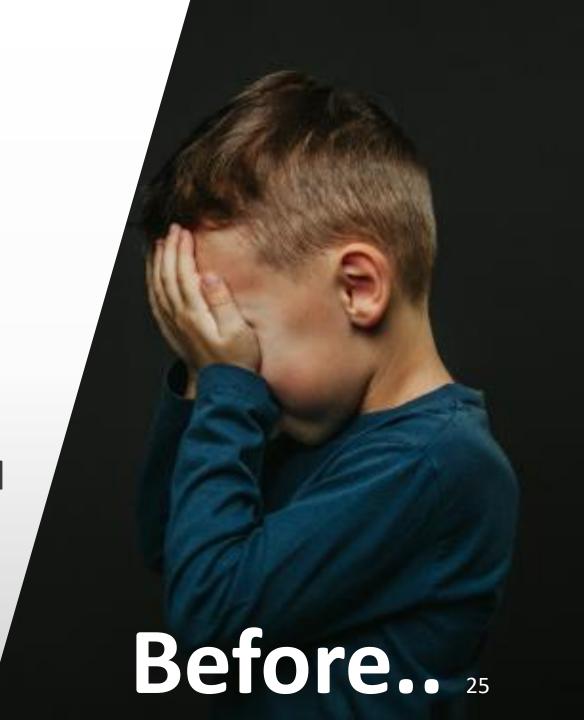


分享「資訊科技保安審計先導計劃」的觀察及經驗



Case Sharing: NGO

- Lack of Cyber Security Awareness& Knowledge
- ❖ No IT Staff / Over Reliance on Service Providers
- Cyber Security Incident Happened Before
- Difficulty in Quantifying Cyber Risks





NGO Sector Is Vulnerable....



Only 20% of NGOs have a policy in place to address cyberattacks.

Source: NTEN

59% of NGOs do not provide any cybersecurity training to staff on a regular basis

Source: NTEN

More than 70% of NGOs have **NOT** run even one vulnerability assessment to evaluate their potential risk exposure.

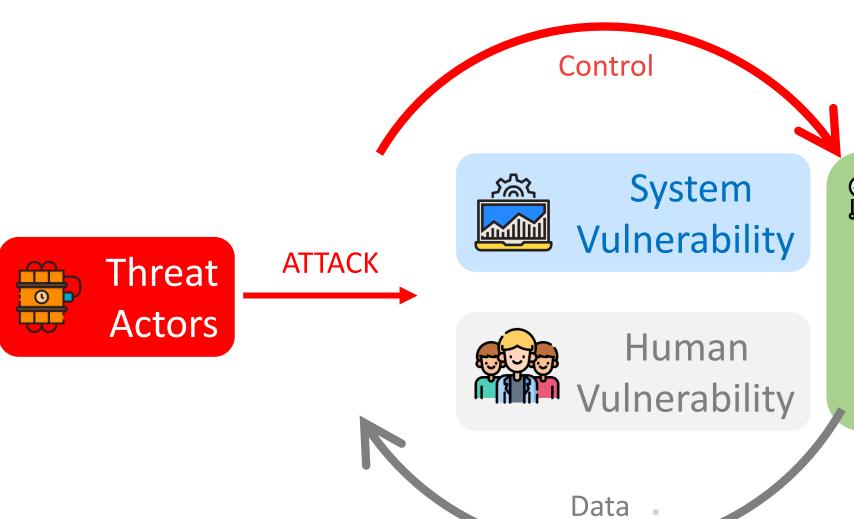
Source: CohnReznick





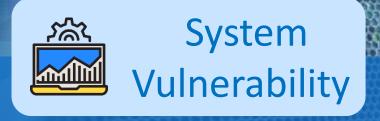
Cyber Attack







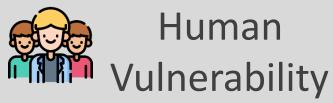






- Misconfiguration
- Missing/Poor Encryption
- Bugs
- ...





- Malicious Insider
- Careless Staff
- Staff vulnerable to social engineering
- Weak Passwords

- ...





Knowing Your Risks is not only the first step to cyber security... It is an important step also!





Case Sharing: NGO

Improved Management & Staff's Cyber Security Awareness

Identified the Weakness and Vulnerability on the Systems and Operation Workflow

Better Understand Cyber Risks and Corresponding Mitigation Actions





Thank you!

IT Security Portal

https://itsecurity.hkcss.org.hk/

HKCERT

https://www.hkcert.org/

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