Effective Practices for Cyber Incident Response and Recovery (2020 Consultative Document)

Category	ltem	Item Description	Reply
General	1.1.	Have you learnt any lessons from the COVID-19 pandemic and related cyber activity that will contribute to your cyber incident response and recovery practices?	Enhanced the process to identify and mitigate any phishing email Included more restricted security configuration when using video conference too
	1.2.	To whom do you think this document should be addressed within your organisation?	Head of Risk Management and AVP Risk and Control
	1.3.	How does your organisation link cyber incident response and recovery with the organisation's business? Does your organisation follow international standards or common frameworks? If so, which international standards or common frameworks?	Operational Risk and Reputation Committee (ORRC) oversight of operational and Security Incident Management Team (headed by CTO) is defined to response and Yes, NIST Cybersecurity and ISO 27001 Frameworks are using
	1.4.	Does your organisation structure its cyber incident response and recovery activities along the seven components set out in the FSB toolkit? Please describe any additional components your organisation considers.	We use NIST cybersecurity framework which should be compatible to FSB Toolking In between the "Preparation" and "Analysis" components, it may have an "Identify may have Risk assessment, Data security, Asset management and Identify access The "Coordination and communication" component should work with "Mitigation communication is mandatory to update the stakeholder till resolution Restoration could be part of Mitigation. The objective is to resume normal opera The "Improvement" component is mainly post review and lesson learnt to make framework

ol

d reputation risks, including cyber security risk

d recovery cyber attack

it at high level

tification" component to identify if there is any area for cyber attack. It is management (Refer to NIST Cybersecurity framework for detail)

on" component together. During the mitigation, the formal

ation after the mitigation

e further enhancement. It should be the last component in the

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			Tools 3: Roles, responsibilities and accountabilities for CIRR
			The roles can be extended to the incident management team from various areas
			Tool 7: Human resources
			In general, it is seldom to have internal job rotations on cyber security issue. It re
			Task 15: Forensic capabilities
			Instead of building own technical and forensic capabilities, more companies will
			company may build its alert capability to identify for any cyber attack and invoke
			In between "Preparation" and "Analysis" components, it may have additional pra
			- Risk assessment
		Based on your organisation's experience, please provide any additional effective	- Data security - Asset management
	1.5.	practice(s) for any of the tools. Please list the number of the tool (e.g. Tools $1 - 46$)	- Identify access management
		and describe the effective practice(s).	(Refer to NIST Cybersecurity framework for detail)
			Restoration could be a part of Mitigation. Identify->Contain->Eradicate->Restore
			Task 23: Business continuity measures
			The KRI is pre-defined under "Preparation" component. The Eradication is execu
			Task 24: Isolation
			Under task 22: Containment already isolate the infected systems and task 25: Er
			Hence, the isolation is already included in both tasks
			Task 26 Prioritisation to Task 29 Approved restoration procedures
			These tasks should be defined under "Preparation" component. During recovery

s, such as forensic, remediation and recovery teams

equires specialist to deal with the attack immediately

subscribe professional service for forensic investigation purpose. The e forensic investigation service upon confirmation

actices for "Identification" component. It may have

e back to normal operation

ution of the KRI when exceeding the threshold

radication is to build the clean environment to resume the operation.

, it is to validate and resume the normal operation after cyber security

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Category	1.6.	Based on your organisation's experience, please provide additional examples of effective practices listed in the boxes (e.g. Boxes 1-6).	Box 1: Example of metrics used by industry Performance metrics are hard to define by incident volume. RPO/RTO is not alw by time of incident discovery, lead time to identify the cyber attack, contain, era investigation sometimes take longer and with other professional service suppor Box 2: Example of internal and external stakeholders CIRR should define the severity/criticality of cyber incident and inform the correct Box 3: Example of CIRR taxonomies The attack/infected period and customer impact (financial, PII) should be includ CIRR should define the severity category according to regulatory/company requiramework Box 4: Example of scope and types of test There are two areas for test - The readiness of operational environment via Red team and Blue team testing, penetration testing while Blue team testing is more on the cyber attack simulati capability Box 6: Type of information that could be included in the cyber incident reporting The following action should be included additionally - Mitigation actions performed - Lesson learnt and improvement performed - Prevention or detection mechanism trigger to prevent/detect the re-occurrence
	1.7.	What role, if any, should authorities play in supporting an organisation's cyber incident response and recovery activities?	The authorities can examine the completeness of remediation actions taken. It can awareness
1. Governance	1.1.	To what extent does your organisation designate roles and responsibilities as described in Tool 3? Does your organisation identify these roles by business line, technology application or department?	Yes, the security incident management team leaded by CTO with corresponding heads and senior management are involved to handle internal/external commu
	1.2.	How does your organisation promote a non-punitive culture to avoid "too little too	There is not definition for "enough" preventive action from incident occurrence its actions to minimize the recurring of incident in future
2. Preparation	2.1.	What tools and processes does your organisation have to deploy during the first days of a cyber incident?	There is a defined processes under security incident management policy Identify & Triage -> Analyse -> Contain -> Eradicate -> Restore
	2.2.	Please provide an example of how your organisation has enhanced its cyber incident response plan over the last 12 months.	We have started the 24x7 SOC service (via Ensign) to monitor all critical firewall, traffic is found
	2.3.	How does your organisation monitor, manage and mitigate risks stemming from third- party service providers (supply chain)?	The similar SOC service are setup for various service providers, such as Tencent suspicious traffic is found
3. Analysis	3.1.	Could you share your organisation's cyber incident analysis taxonomy and severity framework?	The information needed for each incident is likely to include: • Unique reference number • Incident Priority • Date/time recorded • Descriptions of symptoms • Name/department/phone/location of user • Application Name • Incident Urgency • Incident Impact • Line of Business • Incident Support Team

vays applied as it may not trigger BCP. It is recommended to measure adicate and restore the operation environment. The forensic

esponding external stakeholders where necessary

led Jirement and take the corresponding action defined under the

nd drill of "cyber attack" c. Red team testing is more on the vulnerability scanning and ion, such as malware/virus/DDoS attack to validate the infrastructure

g to provide useful details

ce in future can also issue regular security awareness program to draw public

g IT function lead to support cyber security incident. The business unit inication

. In fact, the company has lesson learnt process to keep on improving

/servers activities. We shall receive alert whenever any suspicious

Cloud and Aviva Group. We shall also receive alert whenever any

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	2 2	What are the inputs that would be required to facilitate the analysis of a cyber	Those items under 3.1
	5.2.	incident?	Firewall and servers log information
		What additional tools could be useful to analyse the effectiveness of other incident	Firewall and servers log with SOC (IBM QRadar)
	33	response and recovery activities and the severity impact and root cause of cyber	Akamai/Checkpoint with Threat Prevention feature
	5.5.	incidents?	Nexpose to validate the fixing of the vulnerabilities
			Forensic analysis professional service will be under on need basis
	3.4.	What sector associations does your organisation participate in and what benefit does your organisations accrue from that participation?	The Hong Kong Federation of Insurers. We regularly receive updates about topic
4 Mitigation	<i>A</i> 1	Besides reducing impact to business and system security, what are other	Add-on alternatives, such as better firewall feature, virtual patching, reverse pro
4. Mitigation	4.1.	considerations that need to be taken into account during mitigation?	
	4.2.	What tools or effective practices does your organisation have related to mitigating the impact from: (i) data breaches (ii) loss of data integrity and (iii) ransomware events?	 i) Symantec DLP, ii) Access restriction, database access protection iii) Sophos endpoint security. Cisco AMP for Endpoint
		What tools or practices are effective for integrating the mitigation efforts of third	Service level meeting to review all related incident with mitigation effort till com
	4.3.	narty service providers with the mitigation efforts of the organisation?	Workflow software (such as IBM OpenPages) to record any issue and timely revi
	4.4	What additional tools could be useful for including in the component Mitigation?	Veeam backup and replication solution
		Are there situations in which effective practices for mitigation and restoration	
	4.5.	activities of the organisation are the same or overlap substantially? If yes, please	Not applicable
		provide examples.	
5. Restoration	5.1.	What tools and processes does your organisation have available for restoration?	Veeam backup and replication solution
		Which tools, plans, practices and metrics does your organisation use to prioritise	
	5.2.	restoration activities?	The prioritization of restoration activities is defined based on the application crit
	гþ	How does your organisation minimise undesirable outcomes of restoration activities,	Vecen backup and replication colution has defined the backup versioning
	5.5.	such as restoring affected data?	veean backup and replication solution has defined the backup versioning
6 Improvement	6 1	What are the most effective types of exercises, drills and tests? Why are they	Yes,
o. improvement	0.1.	considered effective?	Tests can verify the integrity in more frequent, while drill can only be performed
	6.2.	What are the major impediments to establishing cross-sectoral and cross-border exercises?	The data will be stored offshore while it is not mandatory for local based compa
		Which technological aids and tools does your organisation consider most useful to	SSL VPN which provide more virtual connection from business users to support
	6.3.	improve cuber incident response and recovery?	
		inprove cyber incident response and recovery!	Zoom with remote access to connect oversea forensic analysis professional to as
			Task 41 (Timely escalation), Task 42 (Regular updates with actionable messages)
7. Coordination		Does your organisation distinguish "coordination activities" from broader	which are helping to complete the mitigation
and	7.1.	"communication" in general? If yes, please describe the distinct nature of each	
communication		component.	Task 44 (Trusted information sharing), Task 45 (Trusted communication channel
			communication with authority and internal/external stakeholders on the securit
	7.2.	How does your organisation address the possibility that email or traditional	The company will switch to Microsoft M365 which to prevent the shutdown of t
		communication channels will be unavailable during a cyber incident?	
	7.3	Apart from regulatory/compliance reporting, what other information does your	The company will share the mandatory information only. Additional information
	,	organisation consider useful to share with authorities?	availability of the other information

cs that are of interest to insurers in Hong Kong.

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npletion view
ticality and also the RPO and RTO requirements
d annually. Both of them are required
any
verification
issist in the cyber security incident
and Task 43 (Cross-border coordination) are coordination activities
ls) and Task 46 (Cyber incident reporting) are grouped as ty incident in a timely manner
traditional communication channels during cyber incident or disaster

n will be provided subject to the request from authorities and the