



Principles for the use of checklists:

Basic item: The general principle for protecting your system from ransomware is to confirm whether the prior technical prevention has been achieved. For the during and after the event, it is recommended as a confirmation for the processing action for completion.

Advanced item: Enterprise has large and complex network environments such as multiple network segments, AD management and control, and virtual platforms, in addition to the basic items needs to be complete, it is also recommended to implement advanced items to achieve a better protection effects; For the consideration on asset, it is important to generate a ranking requirement that can be clarify the sequence of event processing and mitigating the impact for system recovery.

Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
1. Prevention	1.1 System	1.1.1 Antivirus	1.1.1.1 Enable real-time virus pattern	-	
Advice	protection	software	update function		
			1.1.1.2 Full system scan per week	-	
			1.1.1.3 Antivirus software is in the	-	
			protection state		
			1.1.1.4 When a storage device such as	-	
			a flash drive is connected to the		
			computer, perform an antivirus scan		
		1.1.2 Software and	1.1.2.1 Enable automatic security	-	
		firmware update	updates for Windows systems		
			1.1.2.2 "Update other Microsoft	-	

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Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
			products" must be enabled in		
			Windows update feature		
			-	1.1.2.3 Confirm the system,	
				application software and	
				firmware update status and	
				keep it up to date	
			1.1.2.4 The OS and application	-	
			services of antivirus software central		
			control, AD server, and asset		
			management system must be kept up		
			to date		
		1.1.3 Group policy	-	1.1.3.1 Regularly confirm	
				whether there are abnormal	
				changes in the group policy or	
				work schedule of the AD	
				server and asset management	
				system	
		1.1.4 Application	1.1.4.1 Disable the Microsoft office	-	
		software	macro and use it only when necessary		
		1.1.5 Internet service	1.1.5.1 Perform a network service port	-	
			scan every quarter, and make sure that		







Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
			each port is turned on for necessary		
			services, otherwise it should be turned		
			off		
			1.1.5.2 Perform a network service	-	
			vulnerability scan once a quarter, and		
			correct all high and medium risk		
			vulnerabilities		
			1.1.5.3 Enable system event log	-	
		1.1.6 Network	-	1.1.6.1 Implement network	
		segmentation		segmentation and monitor	
				traffic	
		1.1.7 Firewall	1.1.7.1 Prevent any external	-	
			connection with known malicious IP		
			and URL		
			1.1.7.2 Prohibit the use of rules that	-	
			allow any connection		
			1.1.7.3 Only allow connection with	-	
			external service IP and DN		
		1.1.8 Permission	1.1.8.1 Users other than administrators	-	
		setting	are granted the least privileges to		
			perform tasks		







Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
			-	1.1.8.2 View and manage all	
				the usage of user accounts and	
				disable inactive accounts	
			-	1.1.8.3 Implement multi-factor	
				authentication	
			-	1.1.8.4 Implement strict	
				authentication for remote	
				users such as RDP	
		1.1.9 System backup	1.1.9.1 Establish system backup	-	
			mechanism to ensure normal operation		
	1.2 Data	1.2.1 Data backup	1.2.1.1 Perform data backup regularly,	-	
	protection		and the backup interval is not longer		
			than 1 month		
			1.2.1.2 According to the 3-2-1 backup	-	
			principle, 3 backups, 2 storage media,		
			and 1 different storage location		
			1.2.1.3 At least one copy of the media	-	
			or computer used to back up data must		
			be stored in a way that is not		
			connected to the Internet		
			1.2.1.4 Adjust the data backup method	-	







Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
			according to the characteristics of		
			different operating systems (such as		
			Windows, Linux)		
		1.2.2 System image	-	1.2.2.1 Important virtual	
				machines and servers should	
				back up image files and follow	
				the data backup rules	
		1.2.3 Data encryption	1.2.3.1 Encrypt important data when	-	
		and storage	storing		
			-	1.2.3.2 Separate data	
				according to different	
				importance, tasks, etc.	
		1.2.4 Secure access	-	1.2.4.1 Create a list of	
				applications that can access	
				important data	
			-	1.2.4.2 Enable Windows	
				controlled folder access to	
				restrict access to specific	
				folders only by secure	
				applications	
		1.2.5 Asset List	-	1.2.5.1 Inventory of assets and	







Event Phase	Check Aspects	Sub-aspect	Basic Item	Advanced Item	Status
				draw up a list of key assets	
	1.3 Cyber	1.3.1 Education	1.3.1.1 Basic cyber security	-	
	security	Training	knowledge		
	awareness		1.3.1.2 Introduction to ransomware	-	
			attacks		
			1.3.1.3 Introduction to phishing	-	
			attacks, identifying suspicious emails,		
			attached files, links, and web pages		
			1.3.1.4 Introduction to social	-	
			engineering attacks		
			-	1.3.1.5 Regular social	
				engineering training	
	1.4	1.4.1 Contingency	1.4.1.1 Plan the division of labor,		
	Contingency	planning	notification procedures, contact		
	preparation		methods, etc. of employees at all		
			levels when an cyber security incident		
			occurs		
		1.4.2 Contingency	-	1.4.2.1 Perform contingency	
		exercise		training regularly to confirm	
				the effectiveness	
		1.4.3 Cooperative unit	1.4.3.1 Prepare the list of external	1.4.3.2 Join an information	





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Ransomware Prevention Checklist

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			information security units, police	sharing organization, such as	
			investigations and contact methods	ISAC or TWCERT/CC	
			that can be sought for assistance when		
			the information security incident		
			occurs		

Reference

America

https://www.cisa.gov/stopransomware

 $https://www.cisa.gov/sites/default/files/publications/CISA_Fact_Sheet-Rising_Ransomware_Threat_to_OT_Assets_508C.pdf$

https://www.cisa.gov/stopransomware/ive-been-hit-ransomware

https://jenner.com/system/assets/assets/11480/original/memo-what-we-urge-you-to-do-to-protect-against-the-threat-of-ransomware.pdf

England

https://www.ncsc.gov.uk/guidance/mitigating-malware-and-ransomware-attacks

Cyber Security Companies

 $https://www.trendmicro.com/en_no/forHome/campaigns/ransomware-protection.html\\$

https://www.nomoreransom.org/zht_Hant/prevention-advice.html