

## Incident handler's journal

Date:	Entry:					
April 27, 2025	#1					
Description	Documenting a cybersecurity incident					
	1. Detection and Analysis					
	The ransomware incident was initially detected through internal monitoring.					
	Upon confirmation of malicious activity, the organization initiated its incident					
	analysis procedures and engaged multiple external technical partners to assist					
	with investigation and assessment.					
	2. Containment, Eradication, and Recovery					
	Containment measures were implemented immediately, including the					
	shutdown of all computer systems to prevent further spread of the					
	ransomware. Due to limited in-house capability for complete eradication ar recovery, the organization coordinated with specialized external agencies t remove the threat and restore operational systems.					
Tool(s) used	None					
The 5 W's	Capture the 5 W's of an incident.					
	Who An organized group of unethical hackers					
	What Through phishing emails, ransomware was installed					
	When at 9am on Tuesday					
	Where A small U.S. healthcare clinic					
	Why The incident happened when targeted employees clicked on a					
	malicious attachment. This installed malware and gave the unethical					

	hackers the ability to encrypt critical data, and ransomware was installed. A ransom note stated to decrypt, the company must provide money. Money seems to be the motivation.			
Additional notes	<ol> <li>How could the healthcare company prevent an incident like this from occurring again?</li> <li>Should the company pay the ransom to receive the decryption key?</li> </ol>			

Date:	Entry: #2				
May 5, 2025					
Description	Documenting a cybersecurity incident				
Tool(s) used	Email, attachment on email				
The 5 W's	Capture the 5 W's of an incident.  • This is caused by the attachment on the email, and the employee				
	<ul> <li>who downloaded the file.</li> <li>What The employee clicked on the email, and this downloaded the flagpro trojan, which caused many executables to infect the computer.</li> <li>When This occured at 1:15 PM.</li> <li>Where In a financial services company.</li> <li>Why The employee clicked on the malware.</li> </ul>				
Additional notes	How can the financial services company prevent this from happening in the future?  What kind of IT security training should be provided to the employees?				

Date: May 6th, 2025	Entry: #3				
Description	Documenting a cybersecurity incident				
Tool(s) used	Used VirusTotal website, and notes on the email sent to the employee.  VirusTotal is an investigative tool to analyze files and URLs for viruses, worms, trojans, and more.				
The 5 W's	<ul> <li>Who The incident caused by the employee who clicked on malware, called flagpro.</li> <li>What The senders email address doesn't match the name and the sender information. There are grammatical errors and an executable included in the email.</li> <li>When Occured on July 20, 2022.</li> <li>Where This email is sent to hr at the financial institution.</li> <li>Why The employee clicked on the folder, and didn't recognize the indications of malicious intent, and evidence of alarm.</li> </ul>				
Additional notes	How did the malicious actor/s know the employee's email address?  What can be done to prevent this from happening again?				

Date:	Entry: #4.
May 7th, 2025	

Description	Investigation of major security incident			
Tool(s) used	Forced browsing attack, changed the URL string of a purchase confirmation page, required for retail company to pay to not release customer data.			
The 5 W's	<ul> <li>Capture the 5 W's of an incident.</li> <li>Who An unknown unethical hacker.</li> <li>What The hacker found a vulnerability in the web-site, and injected a modifying the order number in the URL string</li> <li>When Started on December 28th 2022, through December 31, 2022.</li> <li>Where In the e-commerce web application</li> <li>Why The vulnerability in the web application.</li> </ul>			
Additional notes	How can this be prevented in the future?  What additional training should be provided to employees that receive emails that are similar?			

Date:	Entry: #5				
May 17th, 2025					
Description	Analyzing a packet capture file				
Tool(s) used	Network protocol analyzer Wireshark that uses a graphical user interface to analyze a packet capture file.				
The 5 W's	Capture the 5 W's of an incident.				
	Who N/A				
	What N/A				

	When N/A				
	Where N/A				
	Why N/A				
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Additional notes	I was so excited to begin this exercise and analyze the packet capture file, since				
	I am gaining experience. At first it was overwhelming, but as I learned about				
	what each part of the captured file meant I understood what was being shown.				

<b>Date:</b> May 22, 2025	Entry: #6				
Description	A Denial-of-Service (Dos) attack, specifically a SYN flood, disrupted a public website.				
Tool(s) used	Wireshark (Packet capture and analysis tool) Firewall and intrusion prevention system				
The 5 W's	<ul> <li>Capture the 5 W's of an incident.</li> <li>Who Website visitors, malicious actors</li> <li>What SYN flood attack or excessive number of SYN packet requests.</li> <li>When Detected June 9, 2025 at 2:17pm</li> <li>Where Public website of an organization</li> <li>Why To disrupt and slow down server resources without completing the TCP handshake.</li> </ul>				
Additional notes	TCP handshake exploitation through SYN packets. Used available connection slots, so legitimate users can't access the site. Mitigate through configuration rate limits, implementing upstream traffic filtering through ISP.				