

Incident handler's journal

Instructions

As you continue through this course, you may use this template to record your findings after completing an activity or to take notes on what you've learned about a specific tool or concept. You can also use this journal as a way to log the key takeaways about the different cybersecurity tools or concepts you encounter in this course.

Date: 9.3.2025	Entry: #1
Description	Documenting a cybersecurity incident. This incident occurred in the two phases: 1. Detection and Analysis: The scenario outlines how the organization first detected the ransomware incident. For the analysis step, the organization contacted several organizations for technical assistance. 2. Containment, Eradication, and Recovery: The scenario details some steps that the organization took to contain the incident. For example, the company shut down their computer systems. However, since they could not work to eradicate and recover from the incident alone, they contacted several other organizations for assistance.
Tool(s) used	None.
The 5 W's	 Who caused the incident? An organized group of unethical hackers who are known to target organizations in healthcare and transportation industries. What happened? A ransomware security incident. When did the incident occur? On Tuesday at 9 am. Where did the incident happen?

	At a small U.S. health care clinic. Why did the incident happen?
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	The incident happened because phishing email was sent to several
	employees of the company, which contained a malicious attachment. Once it
	was downloaded, the attackers managed to get access to the organization's
	computer files, and encrypting them will demanding for a ransom. This is a
	type of ransomware and their motivation is financial gain, because they
	demanded a large sum of money in exchange for decryption key.
Additional notes	How can the organization prevent security incident like this from happening
	again in the future?
	Should the organization pay the ransom in exchange for the data, or is there
	any better solution?

Date: 10.3.2025	Entry: #2
Description	Documenting a cybersecurity incident involving data theft through ransomware.
Tool(s) used	None.
The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident?
	An unknown malicious actor
	What happened?
	A data theft and ransomware security incident.
	When did the incident occur?
	December 28, 2022, at 7:20 p.m.

	Where did the incident happen?
	At a mid-sized retail company
	Why did the incident happen?
	Based on the investigation, there is a vulnerability in the e-commerce
	web application. This vulnerability allowed the hacker to perform a
	forced browsing attack and access customer transaction data by
	modifying the order number included in the URL string of a purchase
	confirmation page. This vulnerability allowed the hacker to access
	customer purchase confirmation pages, exposing customer data,
	which the hacker then collected and exfiltrated.
Additional notes	Include any additional thoughts, questions, or findings.

Date: 11.3.2025	Entry: #3
Description	Documenting a cybersecurity incident through a phishing attempt.
Tool(s) used	I used VirusTotal to analyze the suspicious attachment from the email. By
	keying the hash value inside VirusTotal, it can help to analyze if the file is
	malicious and gives information about possible malware associated with the
	hash, community score, etc.
	This incident occurred in the Detection and Analysis phase. After the
	suspicious file was detected by the security systems in place, I had to perform
	deeper analysis and investigation to determine if the alert signified a real
	threat.

The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident?
	Unknown malicious actor.
	What happened?
	A phishing attempt through malicious attachment. An email sent to an
	employee contained a malicious file attachment with the SHA-256 file
	hash of
	54e6ea47eb04634d3e87fd7787e2136ccfbcc80ade34f246a12cf93bab5
	27f6b
	When did the incident occur?
	At 1:11pm
	Where did the incident happen?
	At a financial services company.
	Why did the incident happen?
	The company received an alert about a suspicious file being
	downloaded on an employee's computer. Upon investigation, it was
	discovered that the employee received an email containing an
	attachment. Once the file was downloaded and opened, a malicious
	payload was then executed on their computer.
Additional notes	

Date: 12.3.2025	Entry: #4
Description	Documenting methods of capturing packets using tcpdump.
Tool(s) used	I used topdump, which is used to capture network traffic. It is a command-line network protocol analyzer.

The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident? N/A
	What happened? N/A
	When did the incident occur? N/A
	Where did the incident happen? N/A
	Why did the incident happen? N/A
Additional notes	Include any additional thoughts, questions, or findings.

Reflections/Notes:

1. Were there any specific activities that were challenging for you? Why or why not?

I really enjoyed using tcpdump, although it can be quite challenging. I am new to using the command line, and learning the syntax for a tool like tcpdump was a big learning curve. Although Wireshark seems visually easier to read, I find tcpdump is better to see the codes clearly if something was off and with a few lines of code, you could instruct the system on what to do. What I learned from this was to carefully read the instructions and work through the process slowly. I also need to remember the commands and it does to be better at using tcpdump.

2. Has your understanding of incident detection and response changed after taking this course?

This course has significantly deepened my understanding of incident detection and response. Initially, I had a basic grasp of these concepts but didn't fully appreciate their complexity. As I advanced through the material, I gained insight into the incident lifecycle, the critical role of structured plans and processes, and the tools used for effective response. Overall, my perspective has evolved, and I now feel more knowledgeable and well-equipped to handle incident detection and response effectively.

3. Was there a specific tool or concept that you enjoyed the most? Why?

I really enjoyed learning about network traffic analysis and applying what I learned through network protocol analyzer tools. I found it really interesting to be able to use tools to capture network traffic and analyze it in real time. I am definitely more interested in learning more about this topic, and I hope to one day become more proficient in using network protocol analyzer tools.