

# 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:	Entry:
06/11/2025	1
Description	Review of a ransomware incident where attackers exploited phishing emails to gain access and encrypt critical healthcare company data, demanding a ransom. This entry aligns with the Detection and Analysis phase, as the incident was identified and initial information gathered for further investigation.
Tool(s) used	None
The 5 W's	<ul> <li>Who: An organized group of unethical hackers (suspected ransomware threat actors)</li> <li>What: A ransomware security incident where the attackers successfully encrypted critical company data and demanded a significant ransom payment for decryption.</li> <li>Where: The targeted organization is a healthcare company, impacting its IT systems and sensitive data.</li> <li>When: The incident was first detected on Tuesday at 9:00 AM.</li> </ul>
Additional notes	<ul> <li>The company should enhance its employee security awareness training to reduce phishing risks.</li> <li>Consider deploying advanced email filtering and endpoint protection to prevent similar incidents.</li> </ul>

<b>Date:</b> 06/15/2025	<b>Entry:</b> 2
Description	Investigation of a phishing alert where an employee received and interacted with a suspicious email attachment. This occurred during the Detection and Analysis phase, as suspicious activity was identified and validated using VirusTotal.
Tool(s) used	VirusTotal (used to analyze the suspicious file)
The 5 W's	<ul> <li>Who: Malicious actor (phishing attacker)</li> <li>What: An employee received a phishing email containing a malicious file attachment. The employee opened the email and downloaded the file, introducing malware onto their computer.</li> <li>When: The incident occurred at 1:11 p.m.</li> <li>Where: A financial services company</li> <li>Why: The incident happened because the employee interacted with a phishing email, failing to identify it as malicious and unknowingly downloading malware.</li> </ul>
Additional notes	<ul> <li>Recommend implementing security awareness training for employees to improve phishing detection skills.</li> <li>Consider enhancing email filtering and anti-phishing tools to reduce exposure to such attacks.</li> </ul>

Date:	Entry:
06/16/2025.	3
Description	Documentation of a phishing attack where an employee unknowingly downloaded malware via a phishing email. This corresponds to the Detection and Analysis phase, with escalation to SOC Level 2 for Containment planning.
Tool(s) used	Phishing email
The 5 W's	<ul> <li>Who: An employee who unintentionally opened a phishing email and downloaded malware.</li> <li>What: The downloaded malware installed unauthorized software on the employee's computer.</li> <li>Where: A financial services company</li> <li>When: The incident occurred today at 1:11 p.m.</li> <li>Why: The employee was unaware that the email was malicious and acted automatically, opening and downloading the file.</li> </ul>
Additional notes	<ul> <li>The incident has been confirmed as a phishing attack and escalated to SOC Analyst Level 2 for further investigation and response.</li> <li>Recommend reinforcing phishing awareness training and reviewing email security controls.</li> </ul>

Date:	Entry:
06/17/2025	4
Description	Review of a forced browsing and data exfiltration incident at a retail company, resulting in financial loss. The entry reflects both Detection and Analysis and Containment, Eradication, and Recovery phases as the incident was detected late and required mitigation actions.
Tool(s) used	Forced browsing (unauthorized URL access and enumeration)
The 5 W's	<ul> <li>Who: An anonymous malicious hacker</li> <li>What: The attacker exploited the company's web application through a forced browsing attack, gaining unauthorized access and exfiltrating customer purchase data and transaction records.</li> <li>Where: A retail company</li> <li>When: First signs of the incident: December 22, 2022 at 3:13 p.m.         <ul> <li>Security team notified: December 28, 2022</li> <li>Investigation period: December 28 – December 31, 2022</li> </ul> </li> <li>Why: The company's web application had a vulnerability — a single log source revealed an unusually high volume of sequentially listed customer orders. The attacker identified and exploited this flaw to access data without proper authorization.</li> </ul>
Additional notes	<ul> <li>Perform routine vulnerability scans and penetration testing to identify and remediate web application weaknesses.</li> <li>Strengthen access control mechanisms:         <ul> <li>Implement allowlisting to restrict access to approved URLs and block all other requests.</li> <li>Ensure only authenticated and authorized users can access sensitive content.</li> </ul> </li> </ul>

#### Reflections/Notes:

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

Some activities involving interpreting complex phishing indicators and correlating log data were challenging because they required close attention to subtle details. It took practice to identify patterns quickly and confidently.

## Has your understanding of incident detection and response changed since taking this course?

Yes — my understanding has deepened significantly. I now see incident response as a structured lifecycle where preparation, detection, containment, and recovery are tightly connected rather than isolated steps.

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

I especially enjoyed working with VirusTotal because it provided fast, actionable intelligence on suspicious files and URLs. It made threat analysis feel more manageable and practical.