

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: 1
11/07/2024	
Description	This entry analyzes an incident at a small healthcare clinic in the U.S Based on the description provided, it seems as though this was a ransomware attack conducted by a known group of unethical hackers.
Tool(s) used	None
The 5 W's	 Who caused the incident? The incident was caused by a known group of unethical hackers targeting organizations in healthcare and transportation industries What happened? Employees became unable to access any files or systems required to perform their jobs. A ransom note indicated that the group of hackers had encrypted the files and systems. The note demanded a large sum of money in exchange for the decryption key allowing the files and systems to be decrypted. When did the incident occur?

	Tuesday morning at approximately 9:00 am.
	Where did the incident happen?
	A small healthcare clinic in the United States.
	Why did the incident happen?
	The group of hackers were able to gain access to the network by
	using targeted phishing emails. Once the attachment in the email
	was downloaded, the attackers were able to gain access to the
	network and encrypt the targeted systems.
Additional notes	In order to prevent an attack like this in the future, technical controls such as
	email phishing in addition to managerial controls such as frequent training for
	employees regarding the dangers of phishing and how to identify a similar
	attack.
	Since this is a known group of hackers, have similar attacks occurred at other
	healthcare clinics?

Date: 12/18/2024	Entry: 2
Description	This entry analyzes an incident at a financial services company. An employee has downloaded a suspicious file contained in an email onto their computer. We have created a file hash from the suspicious file for investigation.
Tool(s) used	VirusTotal
The 5 W's	Capture the 5 W's of an incident. • Who caused the incident? • The incident was caused by an unknown threat actor who emailed the malicious file to an employee

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• What happened?

- The employee downloaded and executed the malicious file on their computer. Through investigation, it has been determined that the executed file was malicious. Because of this, and because the incident has been deemed of medium severity, the alert has been escalated.
- When did the incident occur?
 - The malicious file was downloaded at 1:13 p.m.
- Where did the incident happen?
 - A financial services company
- Why did the incident happen?
 - An employee downloaded a password-protected spreadsheet that was attached to an email. When the employee accessed the spreadsheet using the password contained in the email, a malicious payload was executed on their computer.

Additional notes

- Utilizing the tool VirusTotal, it was determined that the file executed on the employee's computer was malicious. The file hash has been flagged as malicious by over 50 security vendors. The malicious file makes contact with several domains and IP addresses once executed as determined through execution in a controlled environment. In order to prevent a similar incident from occurring in the future, phishing training can be conducted with company employees to make them aware of the dangers of suspicious emails.
- The alert has been escalated past tier 1

Date: 12/18/2024	Entry: 3
Description	A retail organization suffered from an incident in which a threat actor was able
	to gain access to over 50,000 customer records including PII and financial
	information. An investigation was performed and the incident is now closed.
Tool(s) used	None
The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident?
	 A threat actor who gained access to customer information due
	to a vulnerability in the e-commerce web application
	What happened?
	 An employee at the retail organization received multiple emails
	demanding compensation in return for customer data not being
	released to the public. Samples of the stolen customer data
	were sent to the employee and an investigation into how this
	data was stolen was launched.
	When did the incident occur?
	 December 28th, 2022 at 7:20 p.m. PT
	Where did the incident happen?
	 A retail organization with over 80% of sales being accounted for
	by e-commerce
	Why did the incident happen?
	 A vulnerability in the e-commerce web application allowed the
	threat actor to input different order numbers into the url string.
	As a result, the attacker was able to view thousands of customer
	purchase confirmation pages. The attacker was able to gain
	access to customer order numbers due to a single log source
	showing an exceptionally high number of sequentially listed
	customer order numbers.

Additional notes	In order to fix the vulnerability and to prevent additional future incidents
	from occurring in the future, the organization plans to take the following
	actions:
	 Perform routine vulnerability scans and penetration testing
	 Implement the following access control mechanisms:
	 Implement allowlisting to allow access to a specified set
	of URLs and automatically block all requests outside of
	this URL range
	 Ensure that only authenticated users are authorized
	access to content

Date: 12/19/2024	Entry: 4
Description	An employee at a financial services company has received an email with a suspicious attachment. Using Chronicle, we investigate the suspicious domain.
Tool(s) used	VirusTotalChronicle
The 5 W's	Capture the 5 W's of an incident. • Who caused the incident? • The incident was caused by an unknown threat actor who emailed the malicious file to an employee • What happened? • The employee downloaded and executed the malicious file on their computer. Through investigation, it has been determined that the executed file was malicious. Because of this, and

because the incident has been deemed of medium severity, the alert has been escalated.

- When did the incident occur?
 - The malicious file was downloaded at 1:13 p.m.
- Where did the incident happen?
 - A financial services company
- Why did the incident happen?
 - An employee downloaded a password-protected spreadsheet that was attached to an email. When the employee accessed the spreadsheet using the password contained in the email, a malicious payload was executed on their computer.

Additional notes

Assets accessing the signin.office365x24.com domain:

- 1. ashton-davidson-pc
- 2. bruce-monroe-pc
- 3. coral-alvarez-pc
- 4. emil-palmer-pc
- 5. jude-reyes-pc
- 6. Roger-spence-pc

Assets making post requests to the signin.office365x24.com domain:

- 1. ashton-davidson-pc
- 2. Emil-palmer-pc

Assets accessing the IP 40.100.174.34:

- 1. amir-david-pc
- 2. ashton-davidson-pc
- 3. bruce-monroe-pc
- 4. coral-alvarez-pc
- 5. jude-reyes-pc
- 6. roger-spence-pc
- 7. warren-morris-pc

Assets making post requests to the IP 40.100.174.34:

- 1. ashton-davidson-pc
- 2. emil-palmer-pc
- 3. warren-morris-pc

Domains associated with the IP 40.100.174.34:

- 1. signin.accounts-google.com
- 2. signin.office365x24.com

Need another journal entry template?

If you want to add more journal entries, please copy one of the tables above and paste it into the template to use for future entries.

Reflections/Notes:

- 1. Were there any specific activities that were challenging for you? Why or why not?
 - a. I think that the last journal entry utilizing Chronicle was the most challenging for me. This is because I needed to explore a new tool with a great amount of information on the screen at once. However, once I got the hang of the SIEM tool and understood how the information was organized, it became simpler to me and I was able to find all of the information that I needed.
- 2. Has your understanding of incident detection and response changed since taking this course?
 - a. I now understand to a greater extent how security analysts respond to incidents. Throughout the course, we went into detail of the NIST Incident Response Lifecycle which further helped me understand the steps in responding to an incident. I learned how to use different tools such as Wireshark, tcpdump, Splunk, and Chronicle to analyze network traffic as well as logs. Finally, I learned how to

use documentation to effectively respond to an incident. Overall, I learned a great deal in this course along with the other courses that I have taken so far.

- 3. Was there a specific tool or concept that you enjoyed the most? Why?
 - a. The tool which I enjoyed using the most was Wireshark. This is because the GUI which it utilizes allows for the efficient organization of network traffic. Individual packets were colored according to their protocols and it was very easy to access additional information related to each packet. While I found topdump easy to use as well, I enjoyed Wireshark's interface.