

## 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: 06/09/2023	Entry: #1				
Description	Ransomware attack on a small US based Health Clinic.				
Tool(s) used	None				
The 5 W's					
	Who caused the incident?				
	<ul> <li>A group of hackers known for attacking healthcare and</li> </ul>				
	transportation industries.				
	What happened?				
	<ul> <li>All data on affected computers was encrypted, and a ransom</li> </ul>				
	note demanded for a large sum of money for the decryption				
	key.				
	When did the incident occur?				
	<ul> <li>The incident occurred at approximately 9am.</li> </ul>				
	Where did the incident happen?				
	o Inside the organization itself.				
	Why did the incident happen?				

	<ul> <li>The hackers were able to get a foothold on the organization's network through the use of social engineering techniques on employees that involved the use of phishing emails with a malicious attachment.</li> </ul>
Additional notes	The malware in question might be a popular strain that is being used by APTs to target specific industries. Maybe further research on the malware or related APTs might provide a means for remediation.

<b>Date:</b> 13/09/2023	Entry: #2				
Description	Investigating a suspicious file				
Tool(s) used	VirusTotal				
The 5 W's	<ul> <li>Who caused the incident?         <ul> <li>An unknown malicious actor</li> </ul> </li> <li>What happened?         <ul> <li>The attachment was a password-protected spreadsheet file.</li> <li>The spreadsheet's password was provided in the email with the SHA-256 file hash of 54e6ea47eb04634d3e87fd7787e2136ccfbcc80ade34f246a12cf 93bab527f6b</li> <li>The employee downloaded the file, then entered the password to open the file.</li> </ul> </li> </ul>				

	<ul> <li>This led to the creation of multiple unauthorized executable on</li> </ul>					
	the employee's computer.					
	When did the incident occur?					
	o The incident occurred at 1:15 p.m					
	Where did the incident happen?					
	o Inside the company on an employee's computer.					
	Why did the incident happen?					
	<ul> <li>The employee must've thought the attachment was safe to</li> </ul>					
	open.					
Additional notes	The employee was a victim of a phishing attempt. Further investigation of the					
	email received might provide clues on why the employee decided to open the					
	file. After creating a hash of the executable and passing it through VirusTotal,					
	several metrics revealed that the file is indeed malicious. This file hash is known					
	as the malware Flagpro, which has been commonly used by the advanced					
	threat actor BlackTech.					

Entry: #3
Responding to a phishing email with a malicious attachment.
None
Who caused the incident?
<ul> <li>An employee that received an email containing a file attachment.</li> <li>What happened?</li> </ul>

	<ul> <li>A phishing alert was received about a suspicious file being downloaded and opened on an employee's computer</li> <li>When did the incident occur?</li> </ul>				
	o The incident occurred at 1:15 p.m				
	Where did the incident happen?				
	o On an employees computer.				
	Why did the incident happen?				
	<ul> <li>The employee was tricked into downloading and opening the malicious attachment.</li> </ul>				
Additional notes	The email was confirmed to be malicious by passing the file hash through				
	VirusTotal. Next, an alert ticket was created following the steps outlined in the				
	phishing incident response playbook. Finally the ticket was escalated to a				
	level-two SOC analyst to take further action.				

<b>Date:</b> 16/09/2023	Entry: #4			
Description	Identifying failed login attempts on a mail server.			
Tool(s) used	Splunk			
The 5 W's	Capture the 5 W's of an incident.  • Who caused the incident?  • Explore any failed SSH logins for the root account.  • What happened?  • Uploaded data that contains log and event information from Buttercup Games' mail servers and web accounts to identify any potential unauthorized access to the server through failed log in attempts.			

	When did the incident occur?					
	<ul> <li>After narrowing search results, the earliest failed login occurred</li> </ul>					
	around 01:39:51 am from the following IP address, 194.8.74.23 on					
	port 3768.					
	Where did the incident happen?					
	<ul> <li>On Buttercup games mail servers.</li> </ul>					
	Why did the incident happen?					
	o The frequency of failed login attempts might be an indication of					
	malicious actors trying to access the root account via SSH.					
Additional notes	After narrowing down the search for failed login attempts on the mail server's					
	root account, this reduced the number of events to just over 300. It was					
	observed that the server experienced a large number of failed login attempts					
	from the root account via SSH on Thursday at approximately 01:39:51 am.					
	Seeing as the attempts were coming from different IP addresses. This might					
	indicate a targeted brute force attack on Buttercup games mail server. The					
	malicious actor might be using a VPN to cover their tracks hence the different					
	IP addresses or it might be a coordinated attack involving a number of diiferent					
	malicious devices working in unison. Further investigation is required to					
	identify the root cause of the logins.					

<b>Date:</b> 17/09/2023	Entry: #5
Description	Using Chronicle to identify phishing emails from a suspicious domain.
Tool(s) used	Chronicle

The 5 W's	None			
Additional notes	The suspicious domain has been involved in phishing campaigns.			
	Multiple assets might have been impacted by the phishing campaign as			
	logs showed that login information was submitted to the suspicious			
	domain via Post requests. Finally, two additional domains related to the			
	suspicious domain were identified by examining the resolved IP address.			

Date:	Entry:				
Record the date	Record the journal entry number.				
of the journal					
entry.					
Description	Provide a brief description about the journal entry.				
Tool(s) used	List any cybersecurity tools that were used.				
The 5 W's	Capture the 5 W's of an incident.				
	Who caused the incident?				
	What happened?				
	When did the incident occur?				
	Where did the incident happen?				
	Why did the incident happen?				
Additional notes	Include any additional thoughts, questions, or findings.				

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After taking this course, my understanding of incident detection and response has definitely evolved. At the beginning of the course, I had some basic understanding of what detection and response entailed, but I didn't fully understand the complexity involved. As I progressed through the course, I learned about the lifecycle of an incident; the importance of plans, processes, and people; and tools used. Overall, I feel that my understanding has changed, and I am equipped with more knowledge and understanding about incident detection and response.