

## Incident handler's journal

Author: Betim Sejdiu

Date:	Entry:
October 7, 2024	#1
Description	The incident unfolded in two phases:
	1. <b>Detection and Analysis</b> : This phase describes how the organization
	initially identified the ransomware incident. During the analysis, the
	organization reached out to several external entities for technical
	support.
	2. Containment, Eradication, and Recovery: This phase outlines the
	measures taken to contain the incident, such as shutting down their
	computer systems. However, because they needed additional help to
	effectively eradicate the threat and recover, they sought assistance
	from several other organizations.
Tool(s) used	N/A
The 5 W's	Who: A coordinated group of unethical hackers
	What: A ransomware security incident
	Where: At a healthcare company
	When: Tuesday at 9:00 a.m.
	Why: The incident occurred because the hackers gained access to the
	company's systems through a phishing attack. Once inside, they
	deployed ransomware to encrypt critical files. The attackers seem to
	be motivated by financial gain, as evidenced by the ransom note they

	left, which demanded a substantial sum of money for the decryption key.
Additional notes	Should you ever in cases such as these pay the ransom to get the decryption key?

Date: October 8, 2024	<b>Entry:</b> #2
Description	Analyzing a packet capture file.
Tool(s) used  The 5 W's	For this activity, I utilized Wireshark to analyze a packet capture file. Wireshark is a network protocol analyzer with a graphical user interface. Its value in cybersecurity lies in its ability to capture and analyze network traffic, aiding security analysts in detecting and investigating malicious activities.  N/A
Additional notes	I've used Wireshark once before in a class project. I am excited to know that some of the knowledge is being brought up again and I've even strengthened it in this exercise.

Date:	Entry:
October 8, 2024	#3
Description	Capturing a packet using tcpdump.
Tool(s) used	For this activity, I employed topdump to capture and analyze network traffic.  Topdump is a network protocol analyzer that operates through the command- line interface. Like Wireshark, topdump is valuable in cybersecurity because it enables security analysts to capture, filter, and analyze network traffic.
The 5 W's	N/A
Additional notes	I've used a command-line interface before; however, I've never used it to capture a packet before so that was new to me. It was a little challenging to capture a packet and figure out all the different aspects of one. I was able to get through this activity following the directions and the notes of packets that I've previously recorded.

Date:	Entry:
October 9, 2024	#4
Description	Investigating a suspicious file hash
Tool(s) used	For this activity, I utilized VirusTotal, an investigative tool that examines files and URLs for malicious content, including viruses, worms, trojans, and more. It's an invaluable resource for quickly checking if an indicator of compromise, such as a website or file, has been flagged as malicious by others in the

	cybersecurity community. In this instance, I used VirusTotal to analyze a file
	hash that was reported as malicious.
	This incident took place during the Detection and Analysis phase. The scenario
	positioned me as a security analyst at a Security Operations Center (SOC)
	investigating a suspicious file hash. After the security systems detected the
	suspicious file, I needed to conduct a thorough analysis to determine whether
	the alert indicated a genuine threat.
The 5 W's	Who: An unidentified malicious actor
	What: An email sent to an employee contained a malicious file
	attachment with the SHA-256 hash of
	54e6ea47eb04634d3e87fd7787e2136ccfbcc80ade34f246a12cf93bab5
	27f6b
	Where: On an employee's computer at a financial services company
	When: At 1:20 p.m., an alert was triggered and sent to the
	organization's SOC after the intrusion detection system identified the
	file
	Why: An employee was able to download and execute the malicious file
	attachment from the email.
Additional notes	How can we improve security awareness through training to prevent
	employees from clicking on malicious links?