

Incident handler's journal

Date: 4/19/2024	Entry: #1
Description	On Tuesday, at 9:00 am, a U.S healthcare clinic network fell victim to a
	sophisticated phishing attack orchestrated by unethical hackers. The attack
	commenced with the reception of a phishing email containing a malicious
	attachment, which, upon opening, surreptitiously installed malware on an
	unsuspecting employee's computer. Subsequently, the malware propagated
	throughout the company's network, encrypting critical files and rendering
	them inaccessible. The perpetrators then issued a ransom demand, seeking a
	substantial sum of money in exchange for the decryption key.
Tool(s) used	None
The 5 W's	Capture the 5 W's of an incident.
	Who? organization group of unethicall hackers.
	 What? The incident involved a phishing email carrying a malicious
	attachment that facilitated the installation of malware on an
	employee's computer, leading to the encryption of vital company files.
	This incident constitutes a ransomware attack.
	When? The attack occurred on Tuesday at 9:00 am.
	Where? The incident transpired within the confines of a healthcare
	company's network infrastructure.
	Why? The attack was committed via a phishing email, exploiting human
	vulnerabilities to gain unauthorized access to the company's network
	and encrypt sensitive files for ransom.
Additional notes	Employee education and awareness regarding potential cyber threats,
	particularly phishing emails, are essential to strengthening the company's
	defenses against future attacks.

Implementing robust email filtering systems and conducting regular phishing	
simulation exercises can enhance employees' ability to identify and report	
suspicious emails promptly.	
Strengthening cybersecurity measures by implementing multi-layered	
defenses including advanced threat detection mechanisms and endpoint	

Date: 4/28/2024	Entry: #2
Description	On April 28, 2024, at 1:11 PM, an employee at a financial services company
	received an email containing an attached password-protected spreadsheet
	file. The employee, unaware of the malicious intent, proceeded to open the file
	using the provided password. Subsequently, a malicious payload embedded
	within the file was executed on the employee's computer, leading to the
	creation of multiple unauthorized executable files at 1:15 PM. At 1:20 PM, the
	intrusion detection system (IDS) flagged the presence of the executable files,
	triggering an alert to the Security Operations Center (SOC). As a SOC analyst,
	I promptly responded to the alert by creating the SHA256 hash of the file to
	uncover additional indicators of compromise (IoCs) associated with the
	malicious payload.
Tool(s) used	VirusTotal, a comprehensive tool known for its ability to provide detailed
	insights into the malicious nature of files, was utilized to analyze the SHA256
	hash and collect valuable information about the nature and behavior of the
	malicious payload.

protection solutions.

The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident?
	The incident was precipitated by an employee who unwittingly opened
	a malicious file sent by a hacker via email.
	What happened?
	Upon opening the file, a malicious payload was executed on the
	employee's computer, resulting in the creation of unauthorized
	executable files.
	When did the incident occur?
	O 1:11 PM: The employee received the malicious email.
	O 1:13 PM: The employee downloaded and opened the password-
	protected file.
	O 1:15 PM: Multiple unauthorized executable files were generated
	on the employee's computer.
	O 1:20 PM: The IDS detected the presence of the executable files,
	triggering an alert to the SOC.
	Where did the incident happen?
	The incident happened on the employee's work computer within the
	premises of the financial services company.
	Why did the incident happen?
	The incident occurred due to the employee's inadvertent action of
	downloading and opening the malicious file attached to the email.
Additional notes	Implement robust email security protocols, including email filtering and
	scanning mechanisms, to detect and block malicious attachments
	before they reach end-users' inboxes.
	2. Employ endpoint protection solutions, such as antivirus software and
	advanced threat detection mechanisms, to proactively identify and
	mitigate the risks posed by malicious files and payloads.
	3. Promptly remove any remnants of the malicious file from affected

devices to prevent further exploitation or persistence of the threat

within the network infrastructure.

Date: 4/28/2024	Entry: #3
Description	As a level-one Security Operations Center (SOC) analyst at a financial services company, I undertook the task of investigating and resolving an alert concerning a suspicious file that an employee had opened, as detailed in the previous journal entry.
Tool(s) used	The Phishing Playbook was employed to assist level-one SOC analysts in delivering an appropriate and timely response to phishing incidents.
The 5 W's	 Capture the 5 W's of an incident. Who caused the incident? The incident was initiated by an employee, who opened a malicious file sent by a hacker via email. What happened? An attacker employed a phishing tactic by sending a deceptive email to the company's HR department. The email, purportedly from "Def Communications" with the sender's name as "Clyde West," contained numerous indicators of deception, including discrepancies between the sender's email address (76tguyhh6tgftrt7tg.su) and the name in the email body. Moreover, grammatical errors were evident in both the email's body and subject line. The email contained a password-protected attachment named "bfsvc.exe," which, when downloaded and opened by the recipient, led to the execution of a known malicious file. When did the incident occur?

	The incident occurred on July 20, 2022, at 9:30 AM.
	Where did the incident happen?
	The incident transpired at the employee's work computer, and the
	subsequent investigation was conducted at the SOC analyst's
	workstation.
	Why did the incident happen?
	The incident occurred due to the employee's unwitting action of
	downloading and opening the malicious file attached to the phishing
	email.
Additional notes	The company should prioritize providing comprehensive training programs for
	its employees to enhance their ability to discern and differentiate between
	legitimate emails and suspicious ones, thereby reducing the likelihood of
	falling victim to phishing attacks in the future.
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Date: 4/29/2024	Entry:#4
Description	Upon receiving an alert, it was noted that an employee had received a phishing email in their inbox. The email contained a suspicious domain name, signin.office365x24.com. As a security analyst, my objective is to investigate whether other employees have also received phishing emails containing this domain or if any employee has visited the domain.
Tool(s) used	I utilized Chronicle, a Security Information and Event Management (SIEM) tool. Chronicle provides a comprehensive platform for collecting, analyzing, and reporting on data from various sources, making it a valuable asset for analysts in investigating security incidents.

The 5 W's	Capture the 5 W's of an incident.
	Who caused the incident?
	The incident was instigated by a hacker who sent the phishing email.
	What happened?
	A suspicious domain name, signin.office365x24.com, was identified in
	the email body.
	When did the incident occur? N/A
	Where did the incident happen?
	The incident occurred within the email body.
	Why did the incident happen?
	The incident transpired as a result of a hacker's action in sending a
	phishing email.
Additional notes	To mitigate the risk of similar incidents in the future, it is imperative to educate
	employees on how to recognize and differentiate phishing emails from
	legitimate ones. Providing comprehensive training on cybersecurity awareness
	will empower employees to identify and report phishing attempts promptly,
	thereby reducing the likelihood of falling victim to such attacks.