

Performing Incident Response and Forensic Analysis (4e)

Fundamentals of Information Systems Security, Fourth Edition - Lab 10

Student:

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Email:

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Time on Task:

8 hours, 0 minutes

Progress:

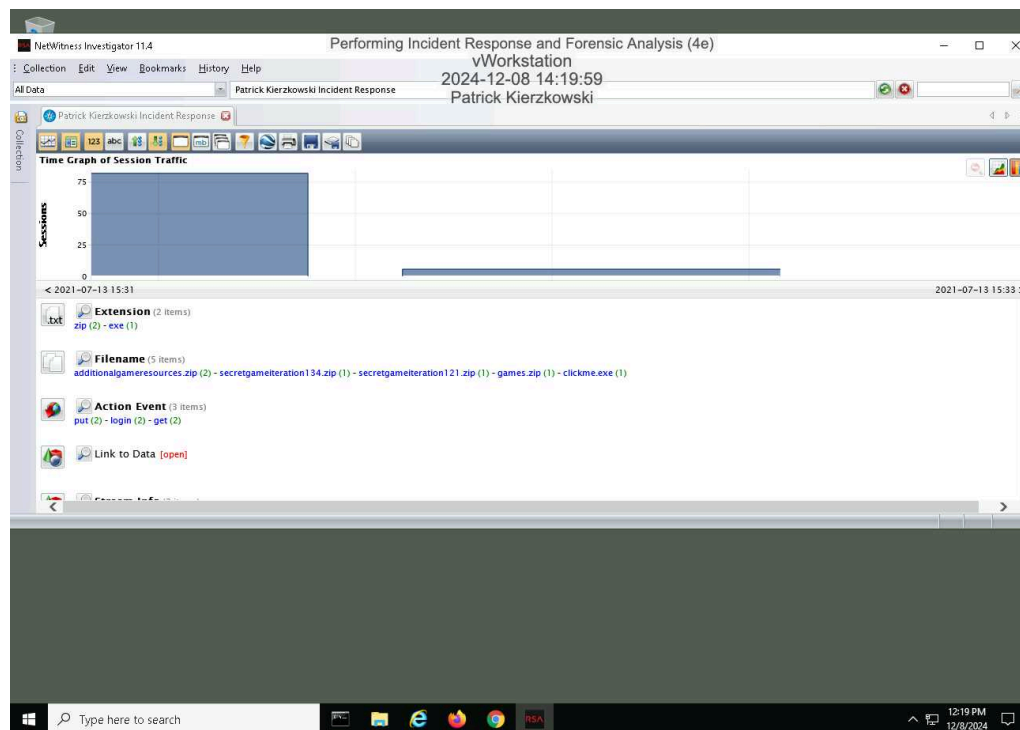
100%

Report Generated: Monday, July 7, 2025 at 9:51 PM

Section 1: Hands-On Demonstration

Part 1: Analyze a PCAP File for Forensic Evidence

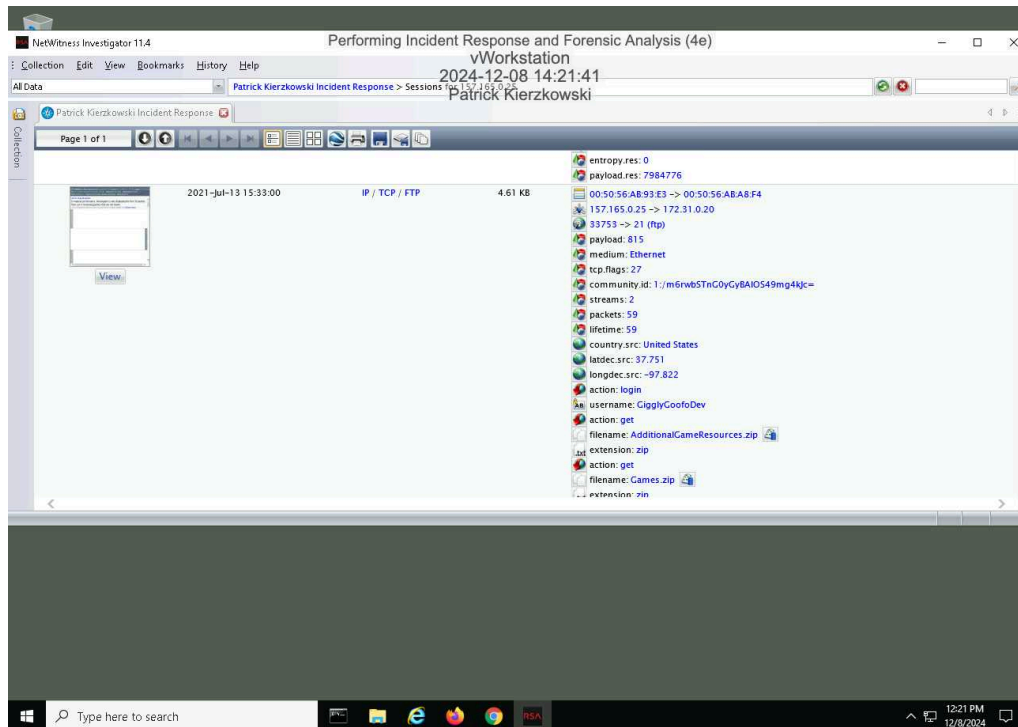
10. Make a screen capture showing the Time Graph.



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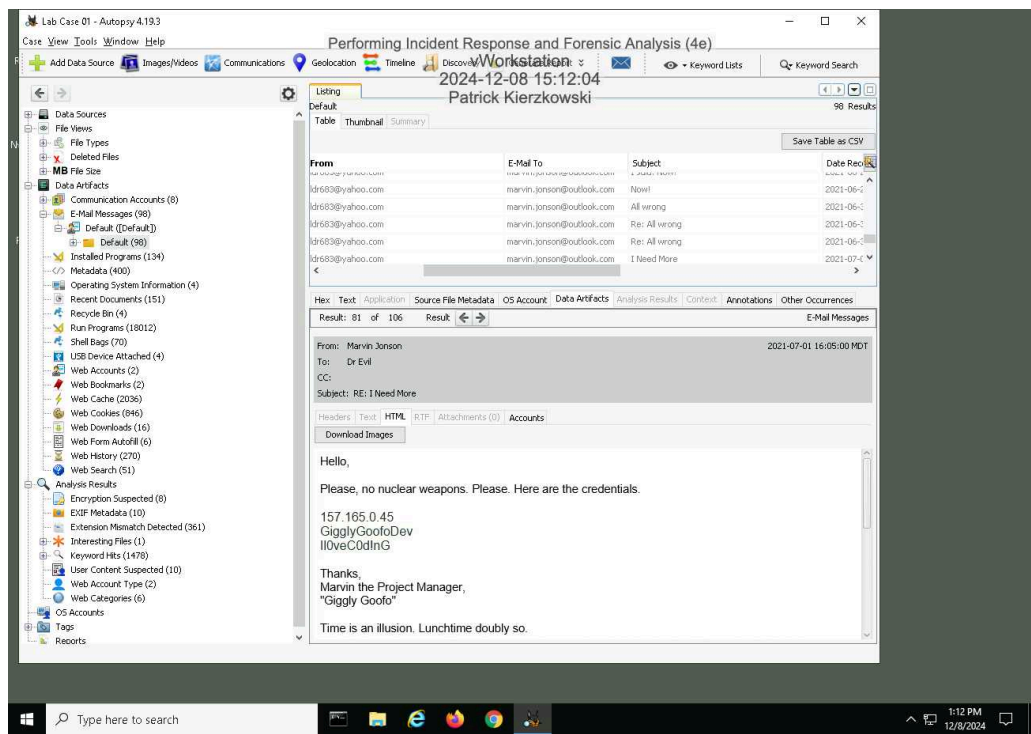
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16. Make a screen capture showing the details of the 2021-Jul-13 15:33:00 session.



Part 2: Analyze a Disk Image for Forensic Evidence

6. Make a screen capture showing the email message containing FTP credentials and the associated timestamps.



Part 3: Prepare an Incident Response Report

Date

Insert current date here.

12/8/24

Name

Insert your name here.

Pstrick Kierzkowski

Incident Priority

Define this incident as High, Medium, Low, or Other.

High

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Incident Type

Include all that apply: Compromised System, Compromised User Credentials, Network Attack (e.g., DoS), Malware (e.g. virus, worm, trojan), Reconnaissance (e.g. scanning, sniffing), Lost Equipment/Theft, Physical Break-in, Social Engineering, Law Enforcement Request, Policy Violation, Unknown/Other.

Compromised System, Reconnaissance , Policy Violation

Incident Timeline

Define the following: Date and time when the incident was discovered, Date and time when the incident was reported, and Date and time when the incident occurred, as well as any other relevant timeline details.

Discovered: 2024-12-08 14:48:00 Reported: 2024-12-08 14:50:00 Occurred: 2021-07-01 16:05:00

Incident Scope

Define the following: Estimated quantity of systems affected, estimated quantity of users affected, third parties involved or affected, as well as any other relevant scoping information.

Estimated quantity of systems affected - 4 Estimated quantity of users affected - 1 Third parties involved or affected - 0 Mr. Johnson worked with Dr. Evil and released IP addresses, and account access to an FTP secured network in order to steal company information

Systems Affected by the Incident

Define the following: Attack sources (e.g., IP address, port), attack destinations (e.g., IP address, port), IP addresses of the affected systems, primary functions of the affected systems (e.g., web server, domain controller).

Attack sources: 157.165.0.45 Attack Destinations: 172.31.0.20 , 172.30.0.1 , 172.30.0.2 , 172.40.0.1 IP addresses of the affected systems: 172.31.0.20 , 172.30.0.1 , 172.30.0.2 , 172.40.0.1 Primary functions of the affected systems: Domain Controller

Users Affected by the Incident

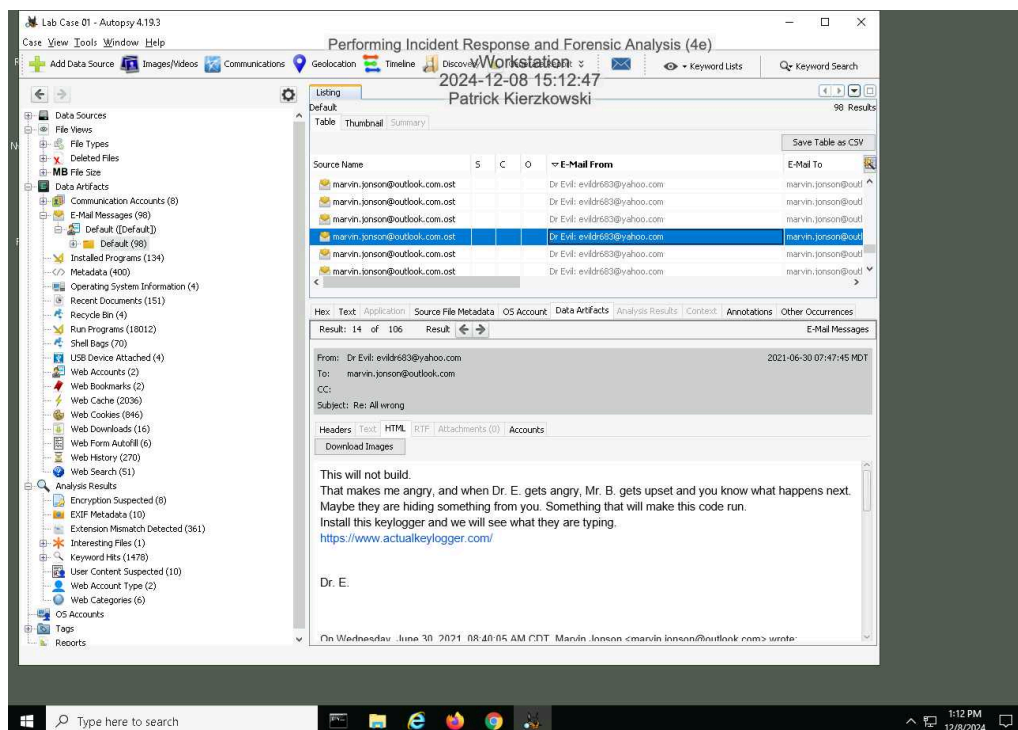
Define the following: Names and job titles of the affected users.

Marvin Johnson Project Manager

Section 2: Applied Learning

Part 1: Identify Additional Email Evidence

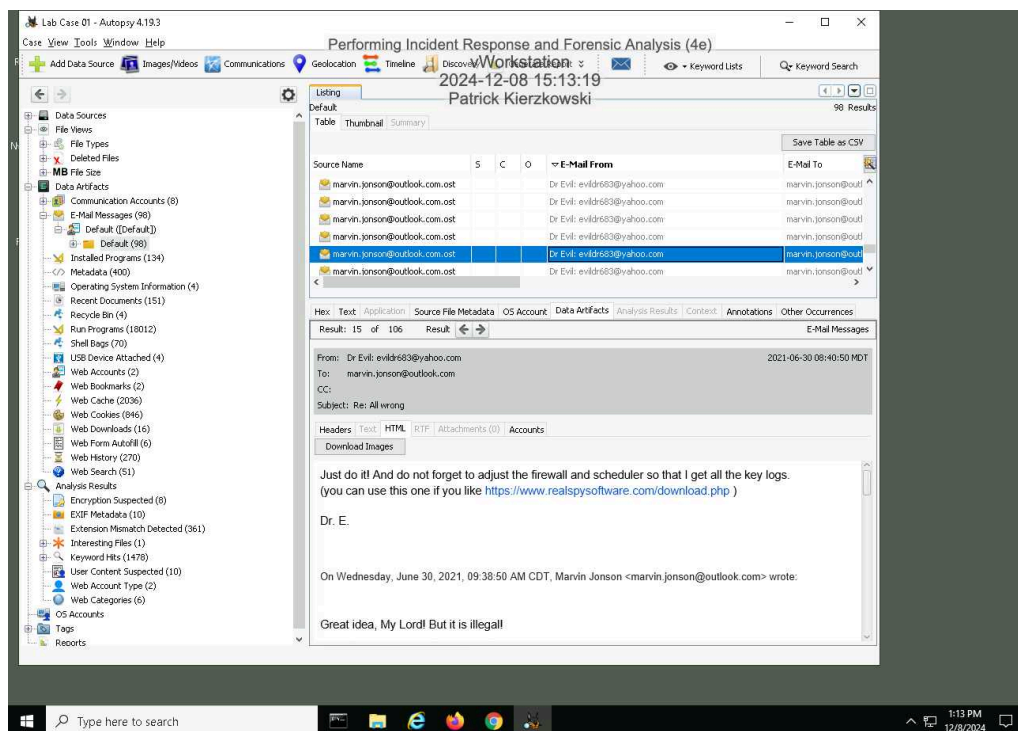
5. Make a screen capture showing the email from Dr. Evil demanding that Marvin install a keylogger.



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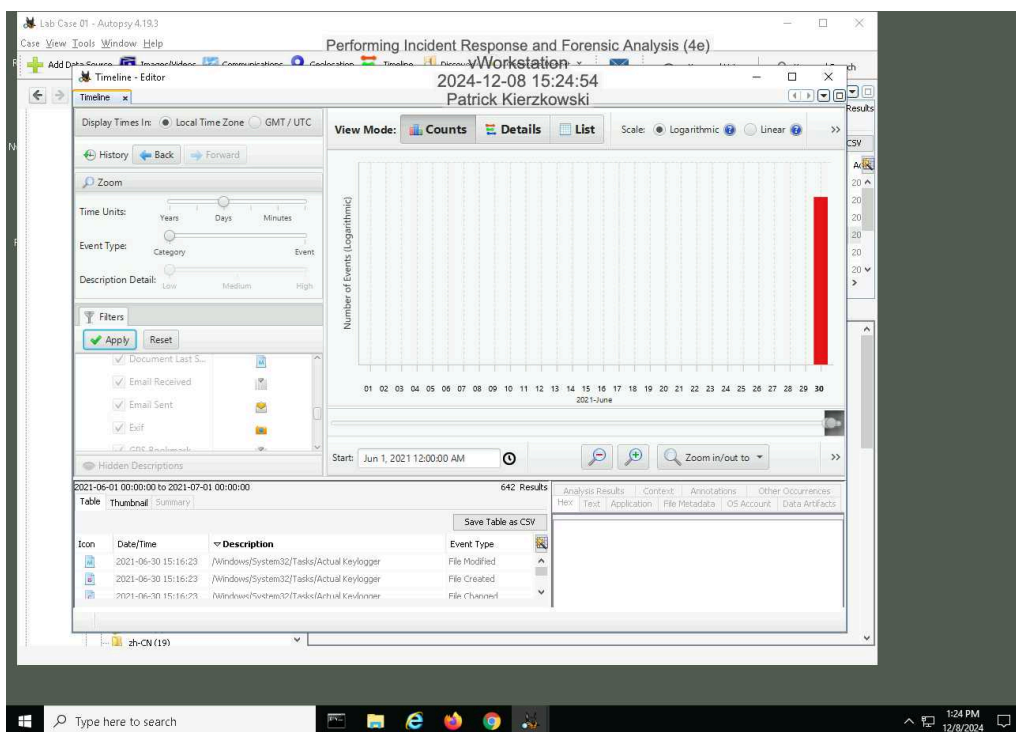
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6. Make a screen capture showing the email from Dr. Evil reminding Marvin to update the firewall and scheduler.

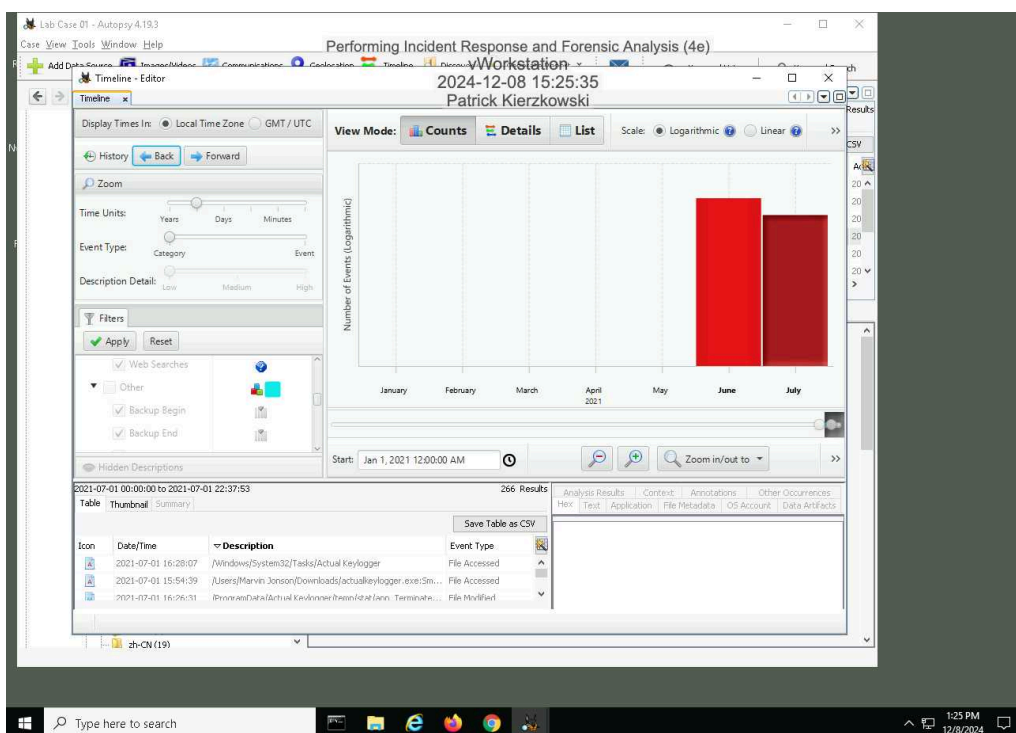


Part 2: Identify Evidence of Spyware

12. Make a screen capture showing the three events that are related to the Actual Keylogger file in the /Windows/System32/Tasks folder with a June 30 timestamp.



15. Make a screen capture showing the one event that is related to the Actual Keylogger file in the /Windows/System32/Tasks folder with a July 1 timestamp.



20. **Record** the date and time that the keylogger's executable file was created.

2021-06-30 15:00:13

22. **Record** the date and time when the keylogger's executable file was last started.

2021-07-01 15:54:39

23. **Record** whether you think you have evidence to claim that Marvin opened the keylogger.

Yes I think we have evidence to claim that Marvin opened the keylogger

Part 3: Update an Incident Response Report

Date

Insert current date here.

12/8/2024

Name

Insert your name here.

Patrick Kierzkowski

Incident Priority

Has the incident priority changed? If so, define the new priority. Otherwise, state that it is unchanged.

Unchanged - still high

Incident Type

Has the incident type changed? If so, define any new incident type categories that apply. Otherwise, state that it is unchanged.

Compromised system, Compromised User Credentials

Incident Timeline

Has the incident timeline changed? If so, define any new events or revisions in the timeline.
Otherwise, state that it is unchanged.

Began at 2021-06-30 Keylogger accessed 2021-07-01 15:54:39

Incident Scope

Has the incident scope changed? If so, define any new scoping information. Otherwise, state that it is unchanged.

Dr. Evil and Marvin worked together

Systems Affected by the Incident

Has the list of systems affected changed? If so, define any new systems or new information.
Otherwise, state that it is unchanged.

Unchanged, but keylogger could get other users info

Users Affected by the Incident

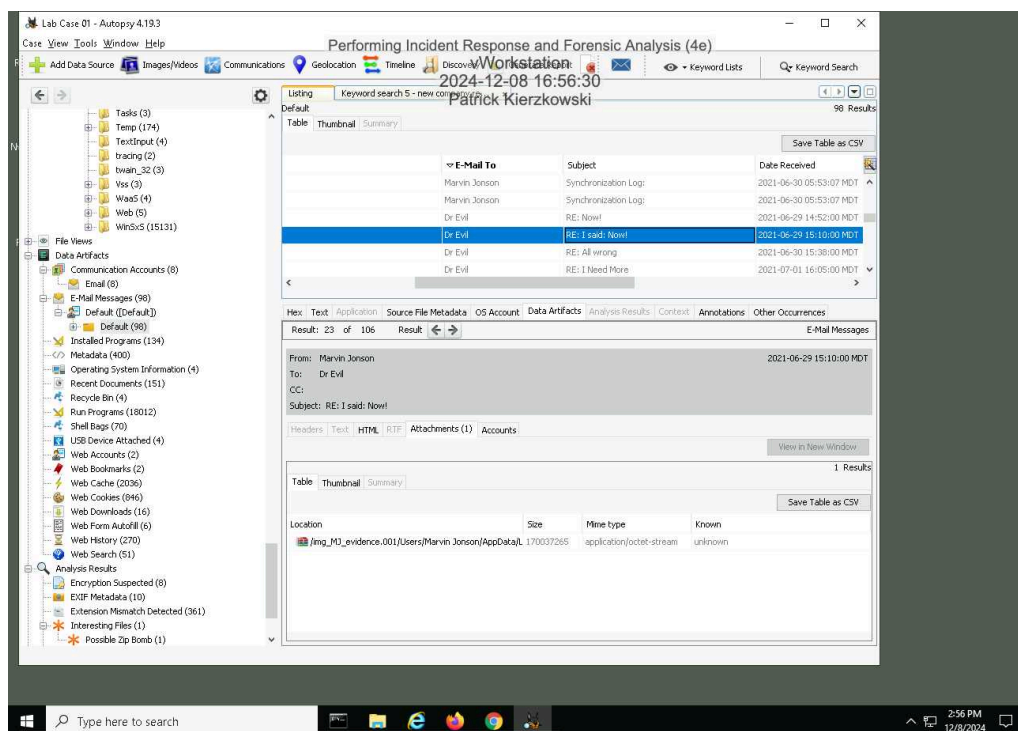
Has the list of users affected changed? If so, define any new users or new information. Otherwise,
state that it is unchanged.

Unchanged for now, just Marvin

Section 3: Challenge and Analysis

Part 1: Identify Additional Evidence of Data Exfiltration

Make a screen capture showing an exfiltrated file in Marvin's Outlook database.

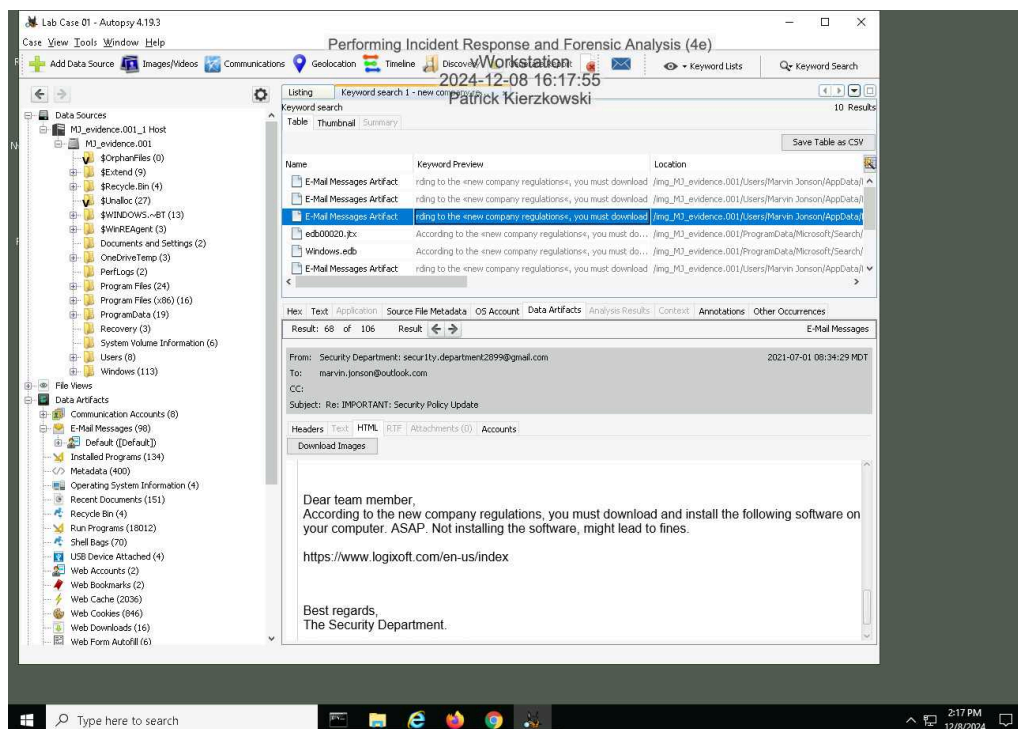


Part 2: Identify Additional Evidence of Spyware

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Make a screen capture showing the email with instructions for installing additional spyware.



Document the red flags in the email that indicate that it may be a phishing attempt.

They say to "Plz, adjust the Firewall and Scheduler and do not talk about us with others. Security, if you know what I mean. Wink." As well as the security email is spelt as secur1ty, which is a giveaway that it's not the actual security team.