

Network Forensics Report: Hawkeye Keylogger Exfiltration via SMTP (CyberDefenders Lab)

Executive Summary:

This project involved a full forensic analysis of a suspicious PCAP file from the **CyberDefenders "Hawkeye" challenge**, which simulated a targeted data exfiltration using the **Hawkeye malware family** — a well-known Windows-based keylogger and data stealer. The investigation revealed credential exfiltration via SMTP, host reconnaissance, and attacker behavior across several network layers.

Key findings included:

- Use of the malware to determine public IP via external lookup to whatismyipaddress.com
 - Exfiltration of sensitive credentials over SMTP using a fake business email
 - A complete mapping of compromised systems using Layer 2 MAC address analysis and DNS activity
 - Estimation of the full attack duration with accurate timeline correlation using Wireshark timestamps
-

Tools and Techniques Used:

- **Wireshark:** Packet-level investigation, protocol inspection, SMTP decoding, conversation tracking
 - **VirusTotal:** Malware behavior verification via hash analysis
 - **CyberDefenders Platform:** Incident simulation environment and structured investigation flow
 - **OSINT Techniques:** Whois, OUI (MAC Vendor Lookup), DNS & SMTP hostname attribution
 - **Base64 Decoding:** Manual decoding of SMTP payloads to retrieve stolen password contents
 - **MITRE ATT&CK Mapping (implicitly):** Techniques such as T1041 – Exfiltration Over Command and Control Channel, and T1056 – Input Capture (Keylogging)
-

Objective:

To simulate a Tier 1/Tier 2 SOC analyst workflow for detecting, investigating, and reporting a malware-driven data exfiltration campaign using packet capture (PCAP) analysis. The goal was to:

- Identify the malware behavior and source host
 - Decode and confirm credential theft
 - Trace exfiltration paths
 - Map internal and external assets
 - Extract Indicators of Compromise (IOCs)
 - Produce a timeline and root cause analysis
-

Investigation Highlights:

Event	Details
Malware Type	Hawkeye keylogger (credential stealer, exfiltrator)
Initial Activity	Host <code>beijing-d5cd1-pc</code> queried <code>whatismyipaddress.com</code> (20:38:15)
SMTP Exfiltration	Credentials emailed to <code>sales@dellmacwinlogistics.com</code>
Credentials Identified	Belonging to “Roman Maguire”, exfiltrated twice
Last Known Exfil Activity	21:40:04
Total Compromise Duration	1 hour, 2 minutes, 10 seconds
Internal Hosts Involved	3 total, using 10.x.x.x addressing
Most Active Host (MAC)	<code>00:80:2f:xx:xx:xx</code> → HP NIC
NIC Vendor	Hewlett-Packard (Palo Alto, California HQ)
DNS Server IP	Identified via traffic pattern (see detailed logs)

Lab Scenario

An accountant at your organization receives an email referencing an invoice with a download link. Shortly after opening the email, suspicious network traffic is detected.

As a SOC analyst, your task is to investigate the network trace and determine whether data exfiltration occurred.

1. Lab Setup

1. Visit **CyberDefenders.org** and create an account (if not already registered).

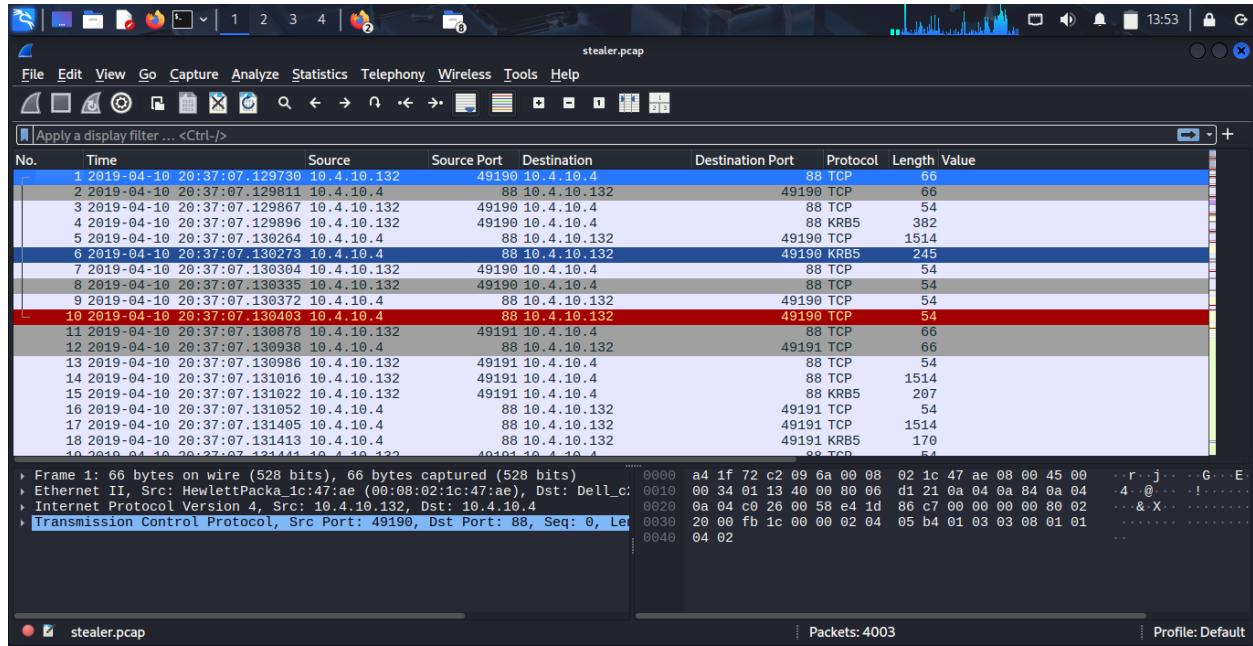
2. Navigate to **BlueYard > Labs > Practice**.
3. Search for the lab titled **“Hawkeye”** and launch it.
4. Accept the platform rules and download the provided lab files.
5. Extract the PCAP file using the password:

cyberdefenders.org

Security Note: Always analyze potentially malicious PCAPs within a virtual machine.

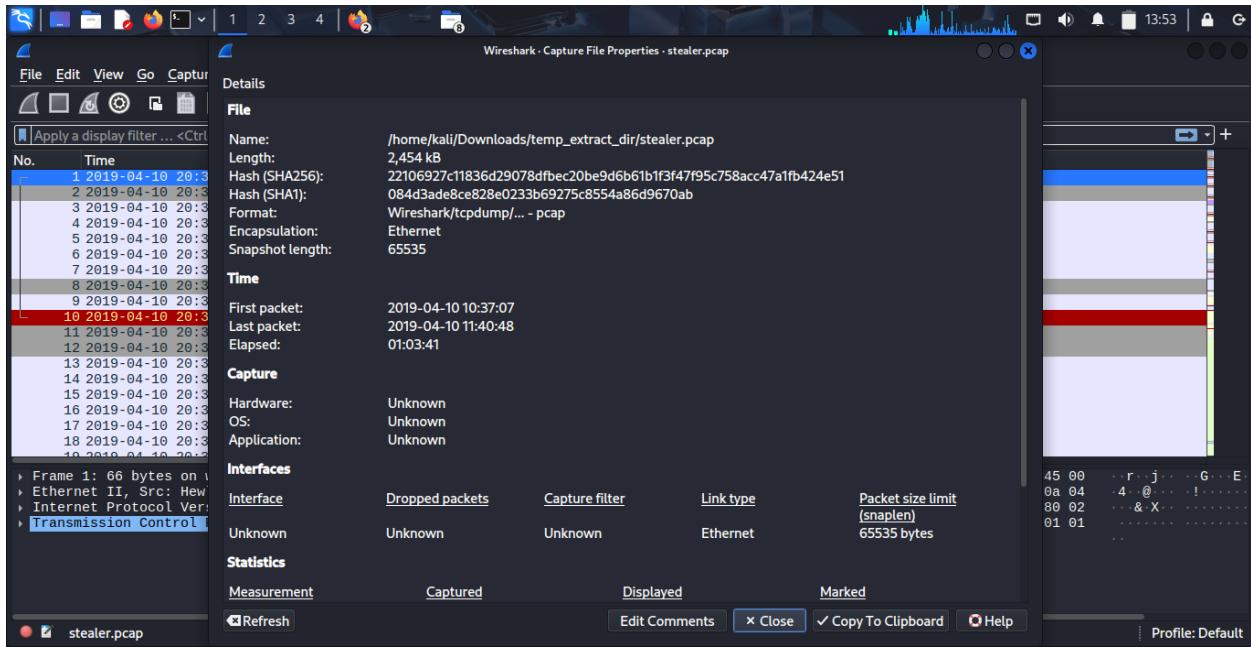
2. Open and Configure Wireshark

Double-click the **.pcap** file to open it in Wireshark. Ensure your Wireshark settings match those from the introductory video for consistency.



3. Initial Analysis: Capture File Properties

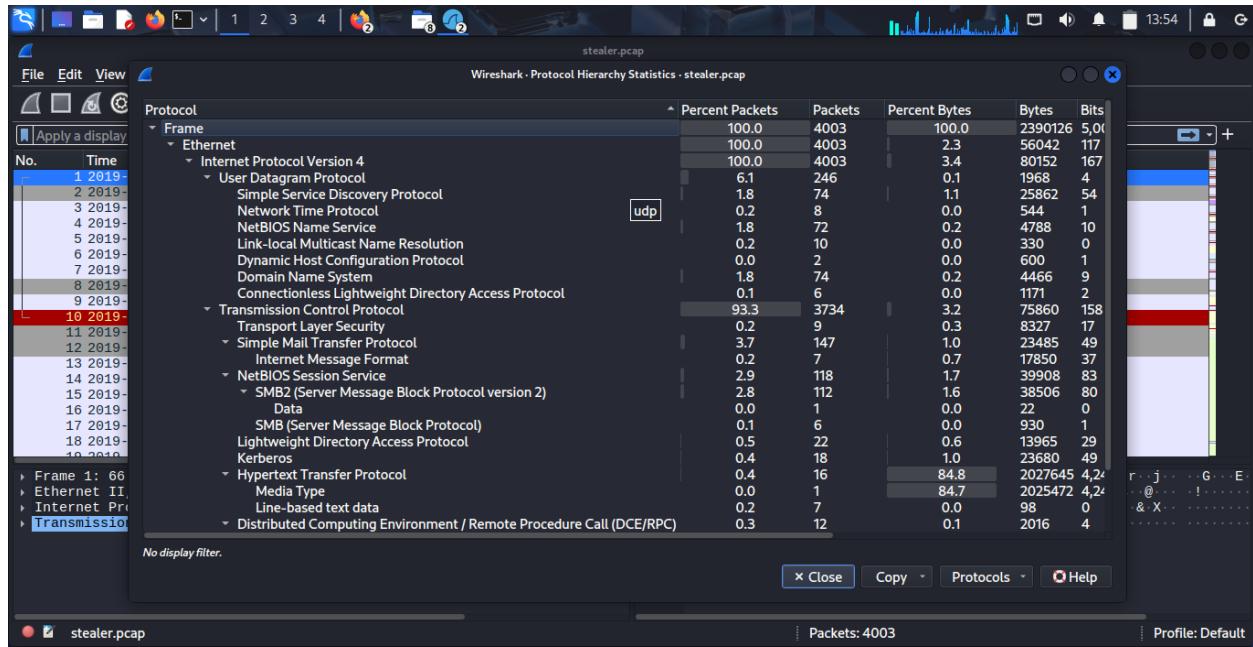
- Navigate to:
Statistics > Capture File Properties
- Duration: The capture spans **~1 hour and 3 minutes**, starting from **April 10, 2019, at 8:37 PM UTC** and ending at **9:40 PM UTC**.



4. Protocol Hierarchy Analysis

- Navigate to:
Statistics > Protocol Hierarchy
- Observed Protocols:
 - **SMB** (Server Message Block)
 - **SMTP** (Simple Mail Transfer Protocol)
 - **Kerberos** (authentication)
 - **HTTP/HTTPS**
 - Others: LDAP, NTP, DNS

Make note of these protocols as they suggest communication types and potential attack vectors.



5. Identify Top Talkers (Conversations)

Navigate to:

- Statistics > Conversations > IPv4 Tab
Sort by **Bytes** to identify the highest-traffic IP addresses.

Top external IPs of interest:

- 217.11.182.38 (potential C2 or exfiltration destination)
- 104.104.x.x
- 232.29.162.69 (possible mail server)

Wireshark - Conversations - stealer.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Wireshark - Conversations - stealer.pcap

Conversation Settings

Ethernet · 6 IPv4 · 11 IPv6 TCP · 39 UDP · 51

Address A Address B Packets Bytes Stream ID Packets A → B Bytes A → B Packets B → A Bytes B → A Rel Start D

10.4.10.132 217.182.138.150 2,947 2 MB 2 1,371 74 kB 1,576 2 MB 47.459211 1.54

10.4.10.132 10.4.10.4 513 114 kB 0 279 68 kB 234 46 kB 0.000000 3821.1

10.4.10.132 23.229.162.69 280 39 kB 4 119 26 kB 161 13 kB 68.784554 3709.1

10.4.10.132 239.255.255.250 74 29 kB 6 74 29 kB 0 0 bytes 109.882622 3666.1

10.4.10.132 216.58.193.131 20 8 kB 8 9 3 kB 11 6 kB 651.547727 0.34

10.4.10.132 66.171.248.178 63 5 kB 3 35 2 kB 28 3 kB 68.581965 3626.1

10.4.10.132 10.4.10.2 42 5 kB 10 42 5 kB 0 0 bytes 2667.119568 1040.1

10.4.10.132 10.4.10.255 30 3 kB 1 30 3 kB 0 0 bytes 46.633556 2823.1

10.4.10.132 224.0.0.22 23 1 kB 5 23 1 kB 0 0 bytes 109.878104 3651.1

10.4.10.132 224.0.0.252 10 750 bytes 9 10 750 bytes 0 0 bytes 2663.801528 1096.1

10.4.10.132 255.255.255.255 1 342 bytes 7 1 342 bytes 0 0 bytes 649.194871 0.00

Protocol: Ethernet

Filter list for specific type

Close Help

stealer.pcap Packets: 4003 Profile: Default

Wireshark - Conversations - stealer.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Wireshark - Conversations - stealer.pcap

Conversation Settings

Ethernet · 6 IPv4 · 11 IPv6 TCP · 39 UDP · 51

Address A Port A Address B Port B Packets Bytes Stream ID Packets A → B Bytes A → B Packets B → A Bytes B → A

10.4.10.132 49204 217.182.138.150 80 2,947 2 MB 14 1,371 74 kB 1,576 2 MB

10.4.10.132 49197 10.4.10.4 445 109 15 kB 7 58 9 kB 51 5 kB

10.4.10.132 49209 216.58.193.131 443 20 8 kB 19 9 3 kB 11 6 kB

10.4.10.132 49203 10.4.10.4 445 25 7 kB 13 15 5 kB 10 2 kB

10.4.10.132 49212 10.4.10.4 445 22 6 kB 22 13 5 kB 9 2 kB

10.4.10.132 49215 10.4.10.4 445 22 6 kB 25 13 5 kB 9 2 kB

10.4.10.132 49221 10.4.10.4 445 22 6 kB 31 13 5 kB 9 2 kB

10.4.10.132 49223 10.4.10.4 445 22 6 kB 33 13 5 kB 9 2 kB

10.4.10.132 49228 10.4.10.4 445 17 6 kB 38 10 4 kB 7 1 kB

10.4.10.132 49206 23.229.162.69 587 40 6 kB 16 17 4 kB 23 2 kB

10.4.10.132 49211 23.229.162.69 587 40 6 kB 21 17 4 kB 23 2 kB

10.4.10.132 49214 23.229.162.69 587 40 6 kB 24 17 4 kB 23 2 kB

10.4.10.132 49217 23.229.162.69 587 40 6 kB 27 17 4 kB 23 2 kB

10.4.10.132 49219 23.229.162.69 587 40 6 kB 29 17 4 kB 23 2 kB

10.4.10.132 49225 23.229.162.69 587 40 6 kB 35 17 4 kB 23 2 kB

10.4.10.132 49227 23.229.162.69 587 40 6 kB 37 17 4 kB 23 2 kB

10.4.10.132 49220 10.4.10.4 389 13 5 kB 30 7 3 kB 6 3 kB

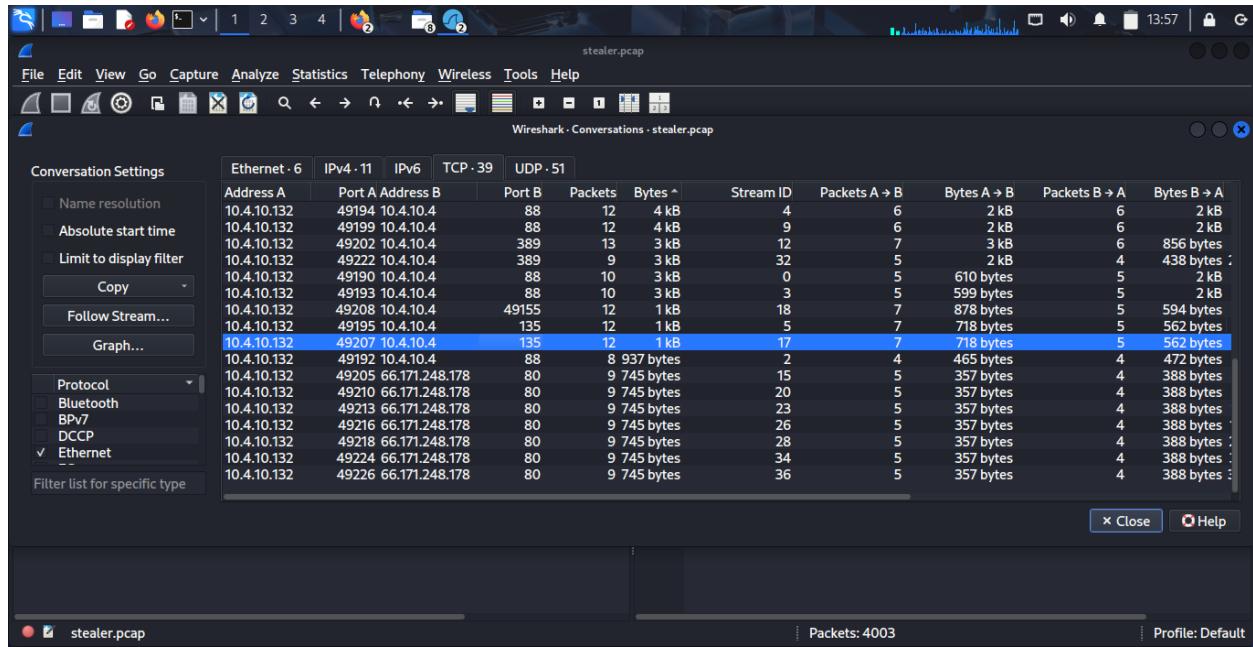
10.4.10.132 49200 10.4.10.4 389 14 5 kB 10 8 3 kB 6 2 kB

Protocol: Ethernet

Filter list for specific type

Close Help

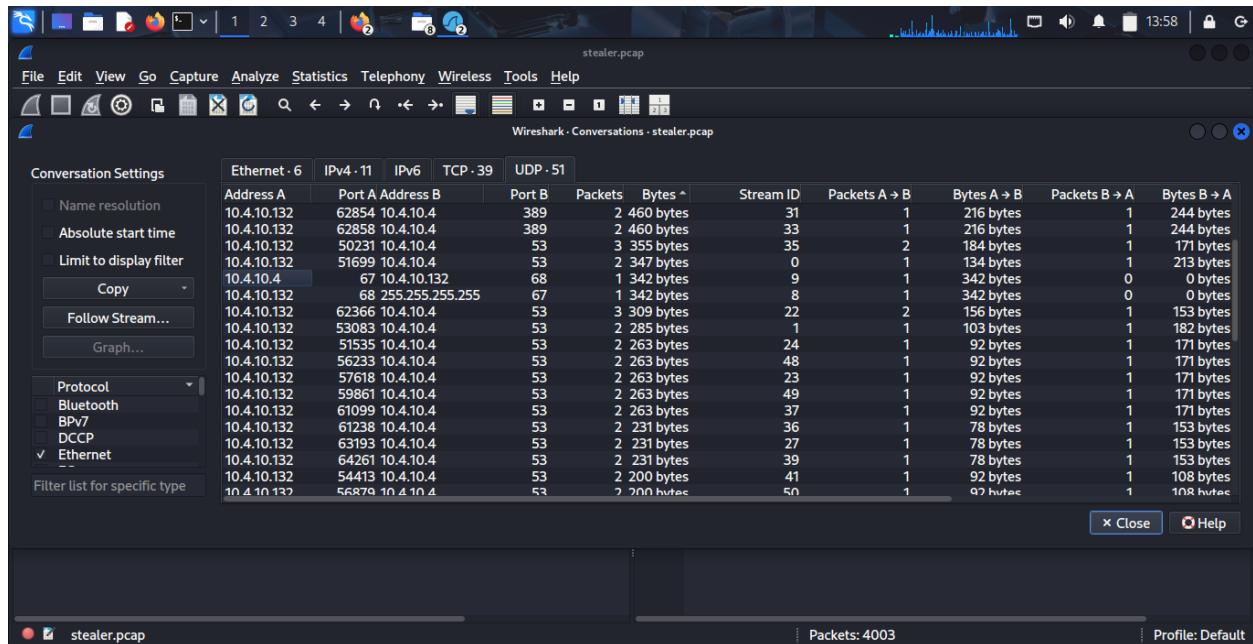
stealer.pcap Packets: 4003 Profile: Default



6. Analyze TCP Conversations

- Check for common ports:
 - 80 (HTTP)
 - 443 (HTTPS)
 - 445 (SMB)
 - 587 (SMTP)

This reinforces the presence of email and file sharing protocols.



8. Filter and Investigate Suspicious IP

Let's investigate the top external IP:

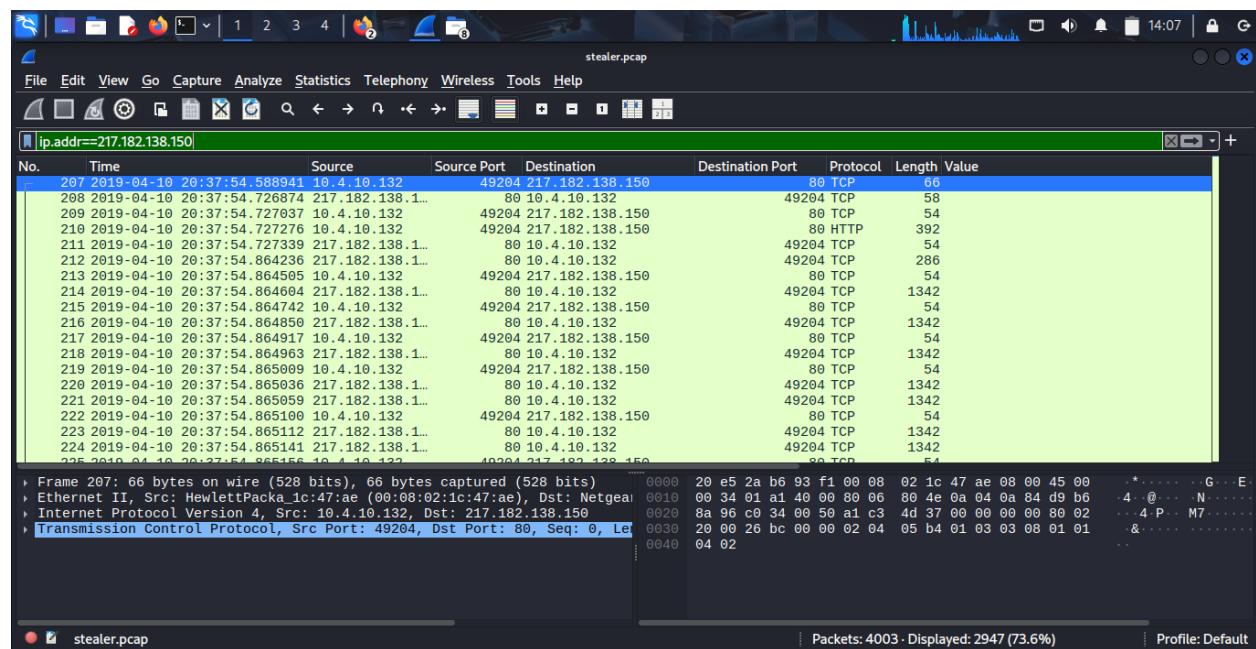
```
wireshark
ip.addr == 217.11.182.38
```

- First appearance: **Packet 210**
- Observed activity: **HTTP GET request**
- Right-click the packet → Follow > HTTP Stream

File Download Discovered

- Content-Type: application/x-msdownload
- Header: MZ (indicates a Windows executable)

This confirms a binary was downloaded from an external IP — possibly malware.



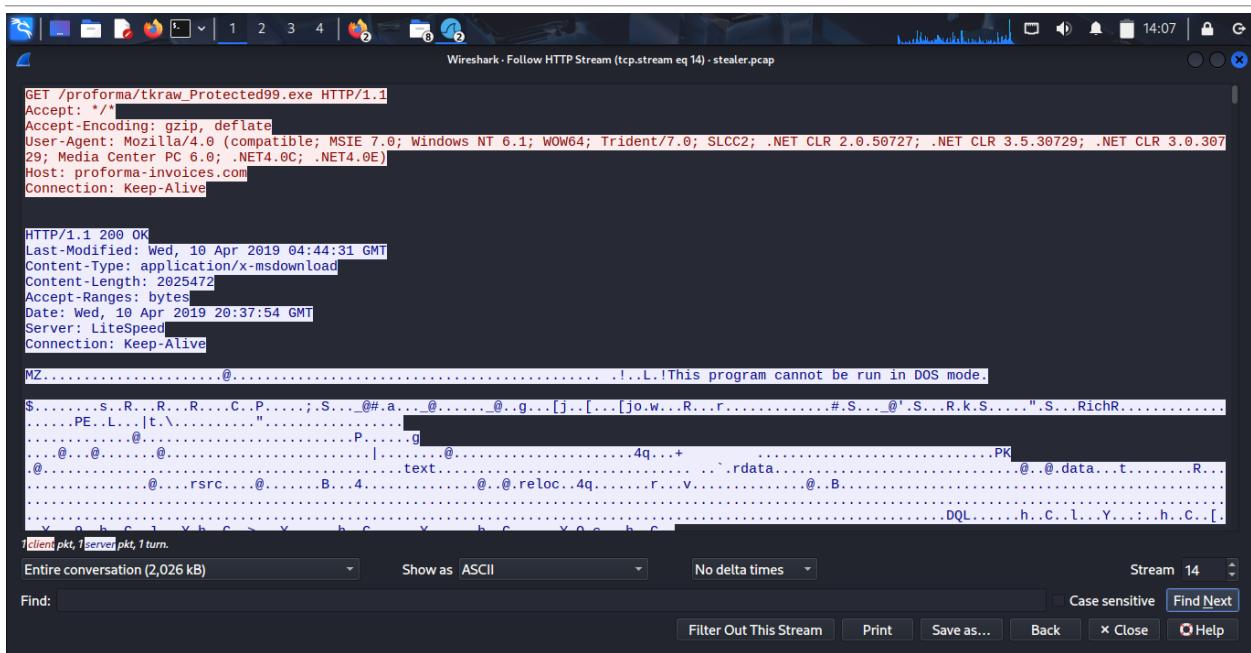
9. Trace Domain Resolution (DNS)

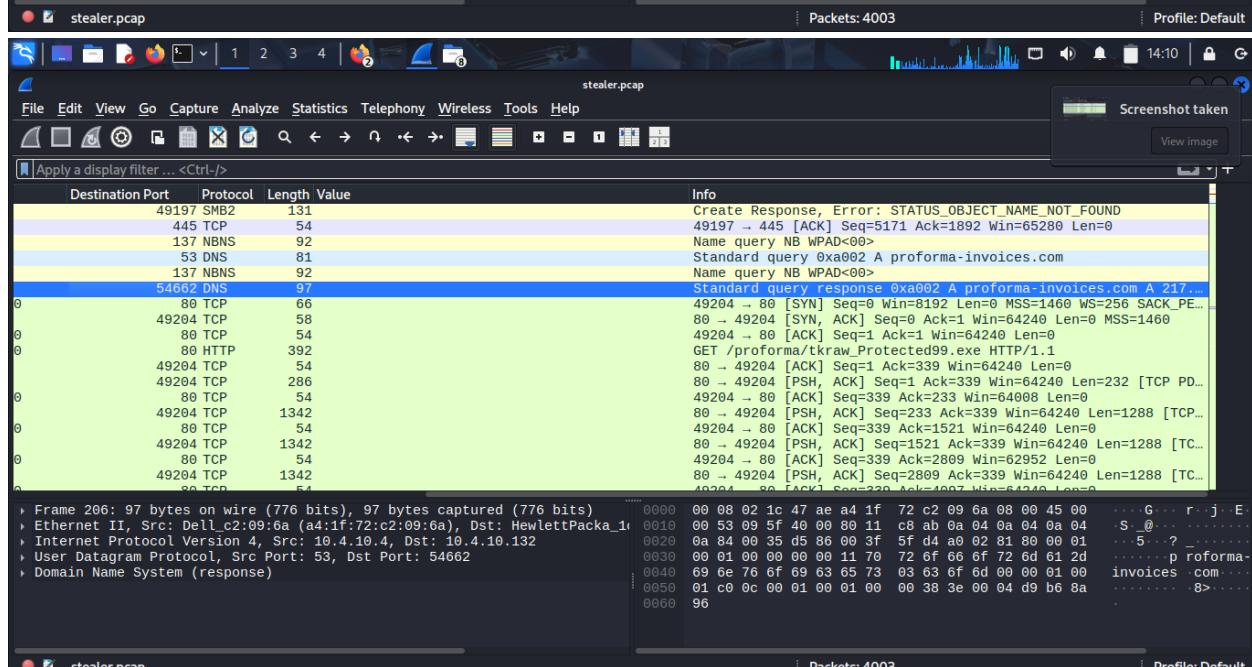
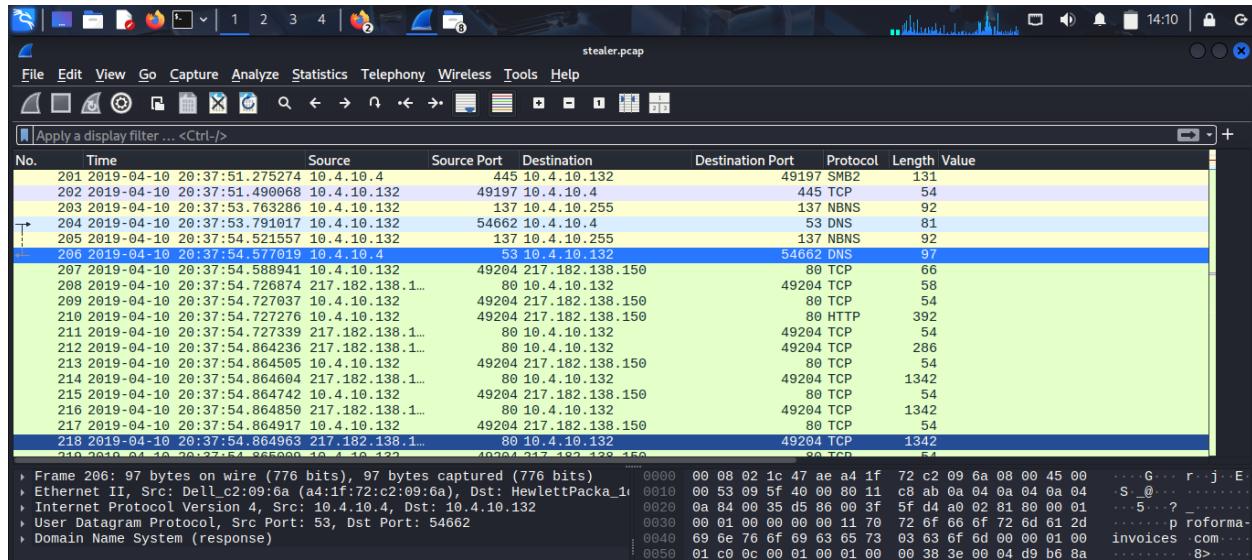
Backtrack to earlier packets (e.g., **packet 206**) to observe:

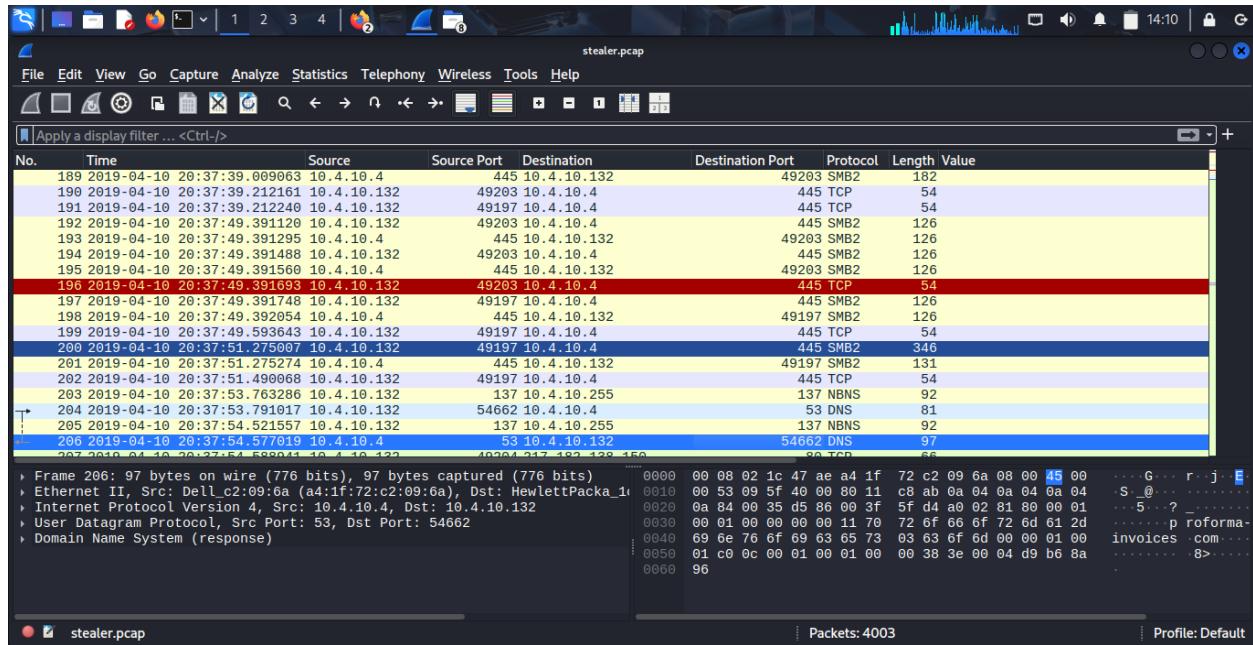
- DNS query/response for:

```
pro-invoices.com
```

This likely matches the invoice download link mentioned in the scenario. It also reveals the attacker's domain infrastructure.







10. Investigate Email Activity (SMTP)

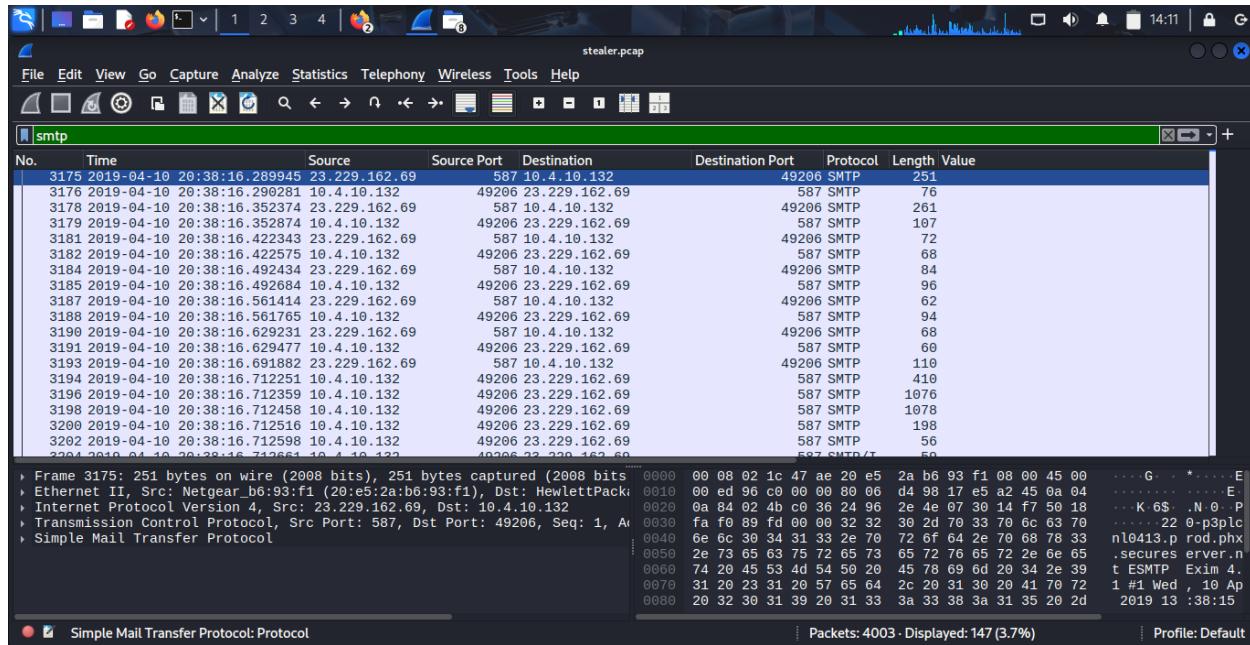
Apply filter:

```
wireshark
smtp
```

- SMTP activity begins around packet 3175, timestamped 8:38 PM UTC
- Right-click the first SMTP packet → Follow > TCP Stream

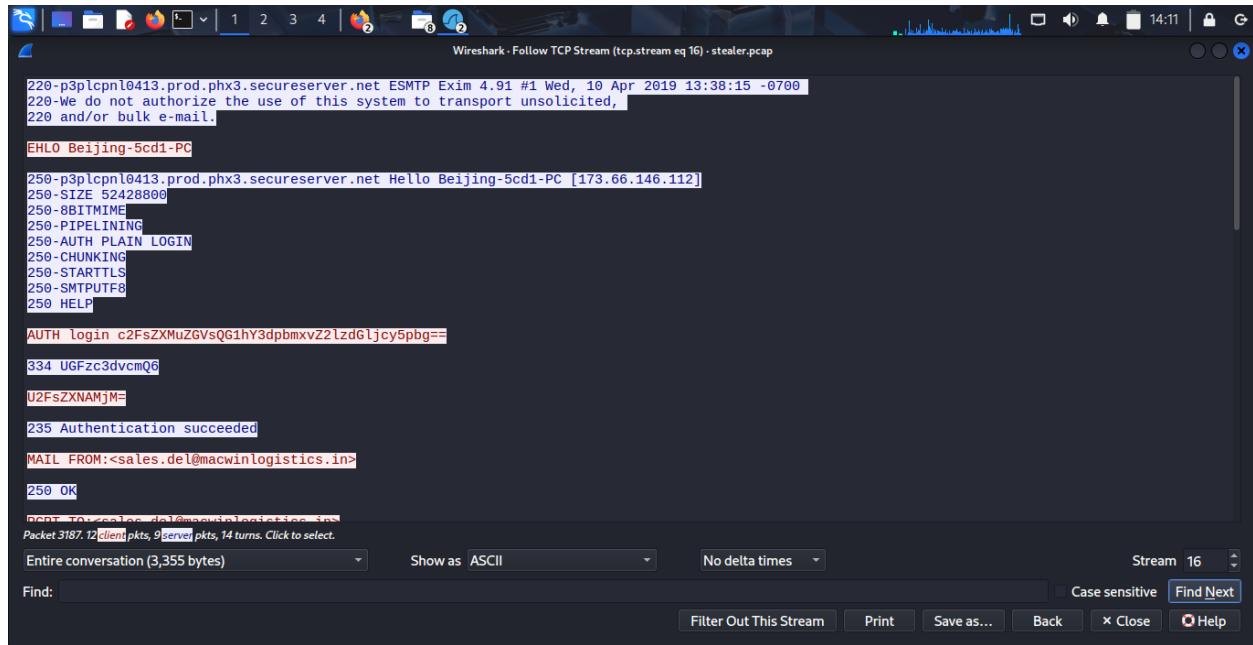
Observations:

- Mail server hostname: `secure-server.net`
- SMTP software version: `Exim 4.91`
- Client hostname: `Beijing-5C-D1-DPC`
- Public IP: `173.66.1.146`
- SMTP Authentication observed (likely Base64-encoded)



Key Indicators of Compromise (IOCs)

Indicator Type	Value
Suspicious Domain	pro-invoices.com
Malicious File Type	.exe (MZ header)
External IP	217.11.182.38
Mail Server	secure-server.net
SMTP Port	587
HTTP Port	80
Base64 Credentials	Observed in SMTP



```
220-p3plcpnl0413.prod.phx3.secureserver.net ESMTP Exim 4.91 #1 Wed, 10 Apr 2019 13:38:15 -0700
220-We do not authorize the use of this system to transport unsolicited,
220 and/or bulk e-mail.

EHLO Beijing-5cd1-PC
258-p3plcpnl0413.prod.phx3.secureserver.net Hello Beijing-5cd1-PC [173.66.146.112]
250-SIZE 52428800
250-8BITMIME
250-PIPELINING
250-AUTH PLAIN LOGIN
250-CHUNKING
250-STARTTLS
250-SMTPUTF8
250-HELP
250 AUTH login c2FsZXMuZGVsQG1hY3dpbmvxZ2lzdGljcy5pbg==

334 UGFzc3dvcmQ6
U2FsZXNAMjM=
235 Authentication succeeded
MAIL FROM:<sales.del@macwinlogistics.in>
250 OK
RCPT TO:sales.del@macwinlogistics.in
Packet 3187. 12 client pkts, 8 server pkts, 14 turns. Click to select.

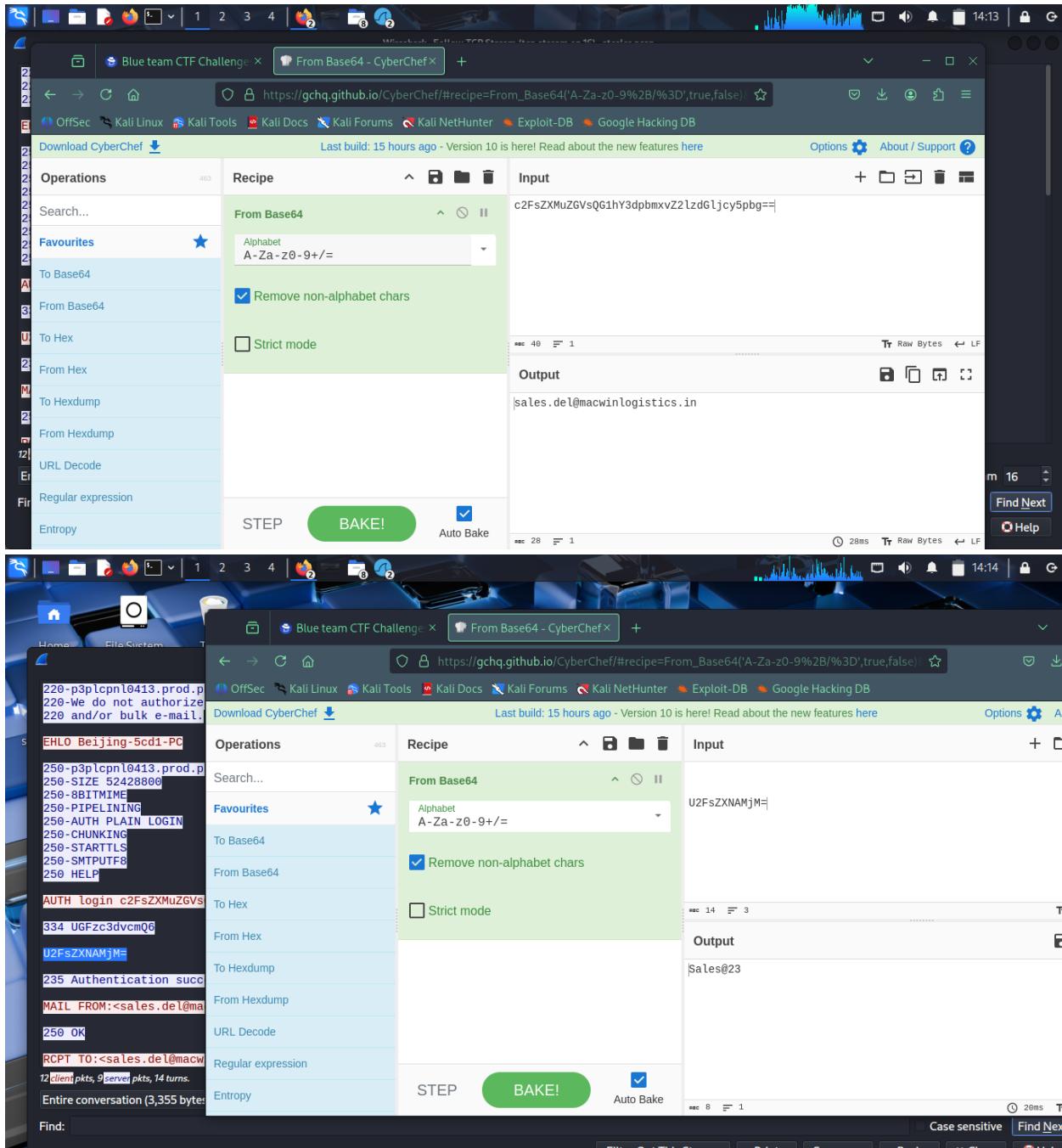
Entire conversation (3,355 bytes) Show as ASCII No delta times Stream 16
Find: Filter Out This Stream Print Save as... Back × Close Help
```

Decoding with CyberChef

Using CyberChef:

- **Username:** sales.dell@macwinlogistics.com
- **Password:** Sales@23

These credentials were likely used by the attacker to authenticate and send exfiltrated data via SMTP.



The screenshot shows two instances of the CyberChef web application. The top instance is decoding a Base64 string: `c2FsZXMuZGVsQG1hY3dpbmVxZ21zdG1jcy5pbg==`. The 'Recipe' is set to 'From Base64' with the 'Alphabet' set to 'A-Za-z0-9=/+'. The 'Input' field contains the Base64 string, and the 'Output' field shows the decoded result: `sales.del@macwinlogistics.in`. The bottom instance is decoding a Base64 string from a log file. The log file content is as follows:

```

220-p3plcpnl0413.prod.p
220-We do not authorize
220 and/or bulk e-mail.
EHLO Beijing-5cd1-PC
250-p3plcpnl0413.prod.p
250-SIZE 52428800
250-8BITMIME
250-PIPELINING
250-AUTH PLAIN LOGIN
250-CHUNKING
250-STARTTLS
250-SMTPUTF8
250 HELP
AUTH login c2FsZXMuZGVs
334 UGFzc3dvcmQ6
U2FsZXNAMjM=
235 Authentication succ
MAIL FROM:<sales.del@ma
250 OK
RCPT TO:<sales.del@macw
12 client pts, 9 server pts, 14 turns.
Entire conversation (3,355 bytes)

```

The 'Recipe' for this instance is also 'From Base64' with the same alphabet settings. The 'Input' field contains the Base64 string `U2FsZXNAMjM=`, and the 'Output' field shows the decoded result: `Sales@23`.

Decoding the Email Subject Line

The subject line was also Base64-encoded. After decoding in CyberChef, it read:

```
mathematica
Hawkeye Keylogger D Reborn V9 - Password Logs
```

This strongly indicates the use of **Hawkeye**, a commodity malware family known for credential theft and keylogging.

The screenshot shows a Kali Linux desktop environment with several windows open. In the foreground, Wireshark is running, showing a conversation between an IP and port 25 and an IP and port 587. The conversation details an SMTP session starting with a '250 Accepted' response. The SMTP body contains a Base64-encoded payload. A CyberChef window is overlaid on the Wireshark interface, with the 'From Base64' tab selected. The input field contains the Base64 string: SGF3a0V5ZSLZXlsb2dnZXIgLSBSZWJvcm4gdjkgLSBQYXNzd29yZHMgTG9ncyAtIHJvbWFuLm1jZ3VpcmUgXBCRULKSU5HDTVDRDETUEMgLsAxNzMuNjYuMTQ2LjExMg==. The output field shows the decoded string: Hawkeye Keylogger - Reborn v9 - Passwords Logs - roman.maguire \ BEIJING-5CD1-PC - 173.66.146.112. Below the CyberChef window, the Wireshark packet list shows two entries: 3205 2019-04-10 20:38:16.712678 23.229.162.69 587 10.4.10.132 and 3206 2019-04-10 20:38:16.853704 23.229.162.69 587 10.4.10.132.

. Decoding the Exfiltrated Email Content

The SMTP body contained another Base64-encoded payload. Decoding revealed multiple stolen credentials:

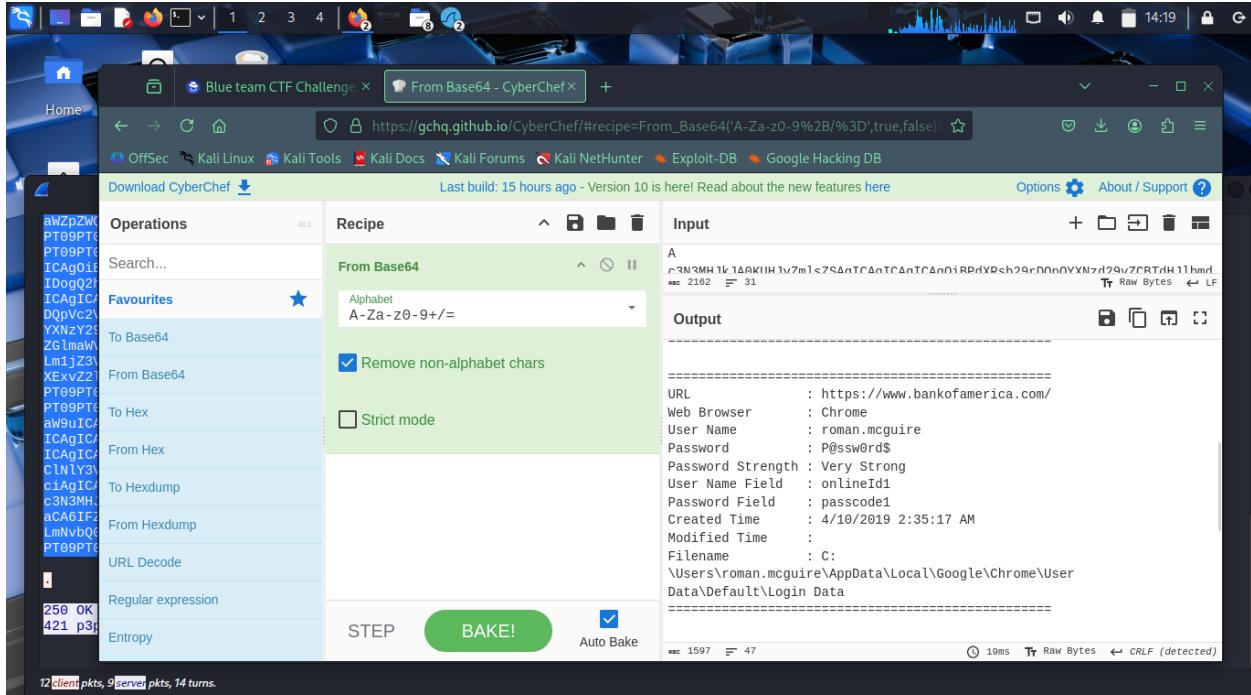
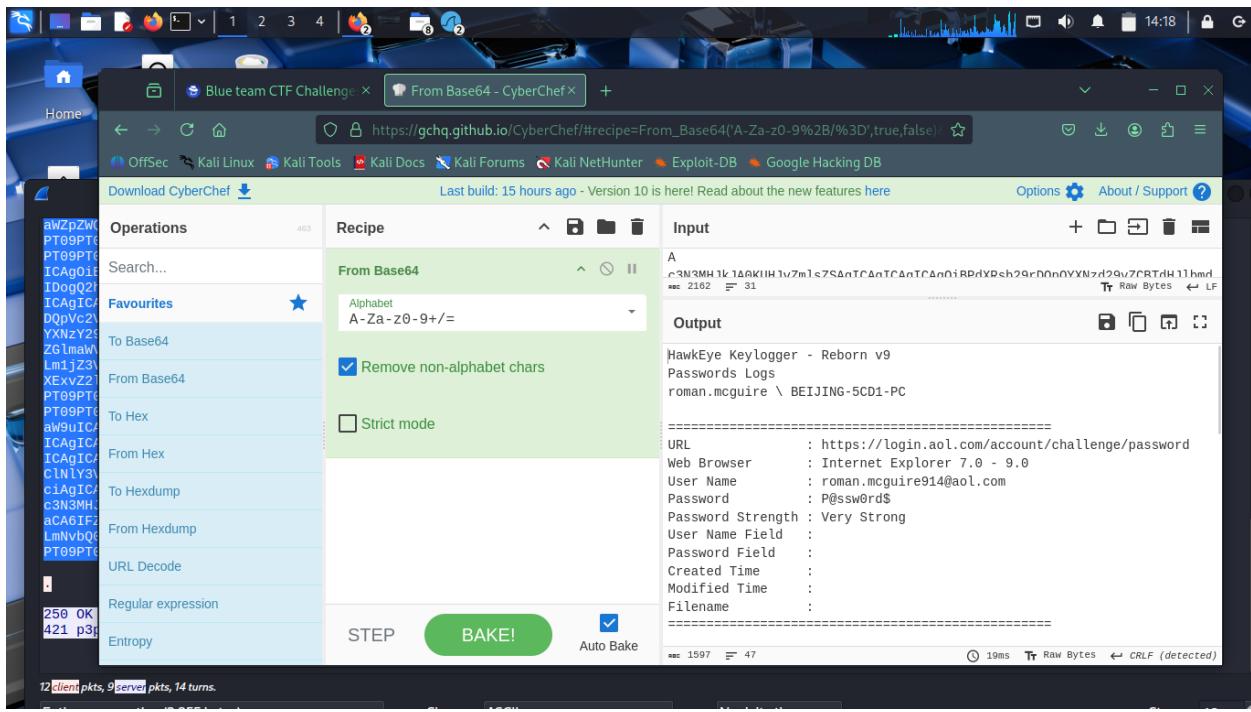
```
plaintext
Username: roman.maguire914@aol.com
```

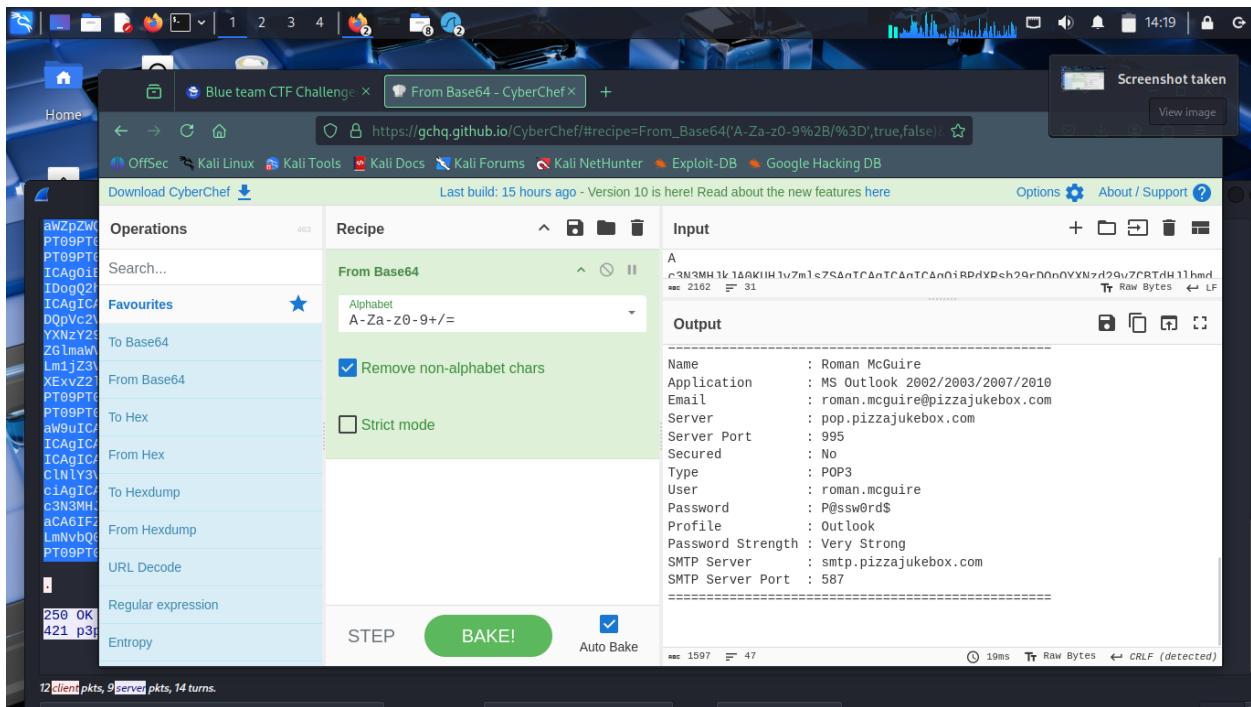
Password: p@ssw0rd\$
Service: Bank of America

Service: Outlook
Service: PizzaJukebox (assumed company)
Password reused across accounts

Key Finding:

Passwords were reused across sensitive platforms — a critical operational security failure by the victim.

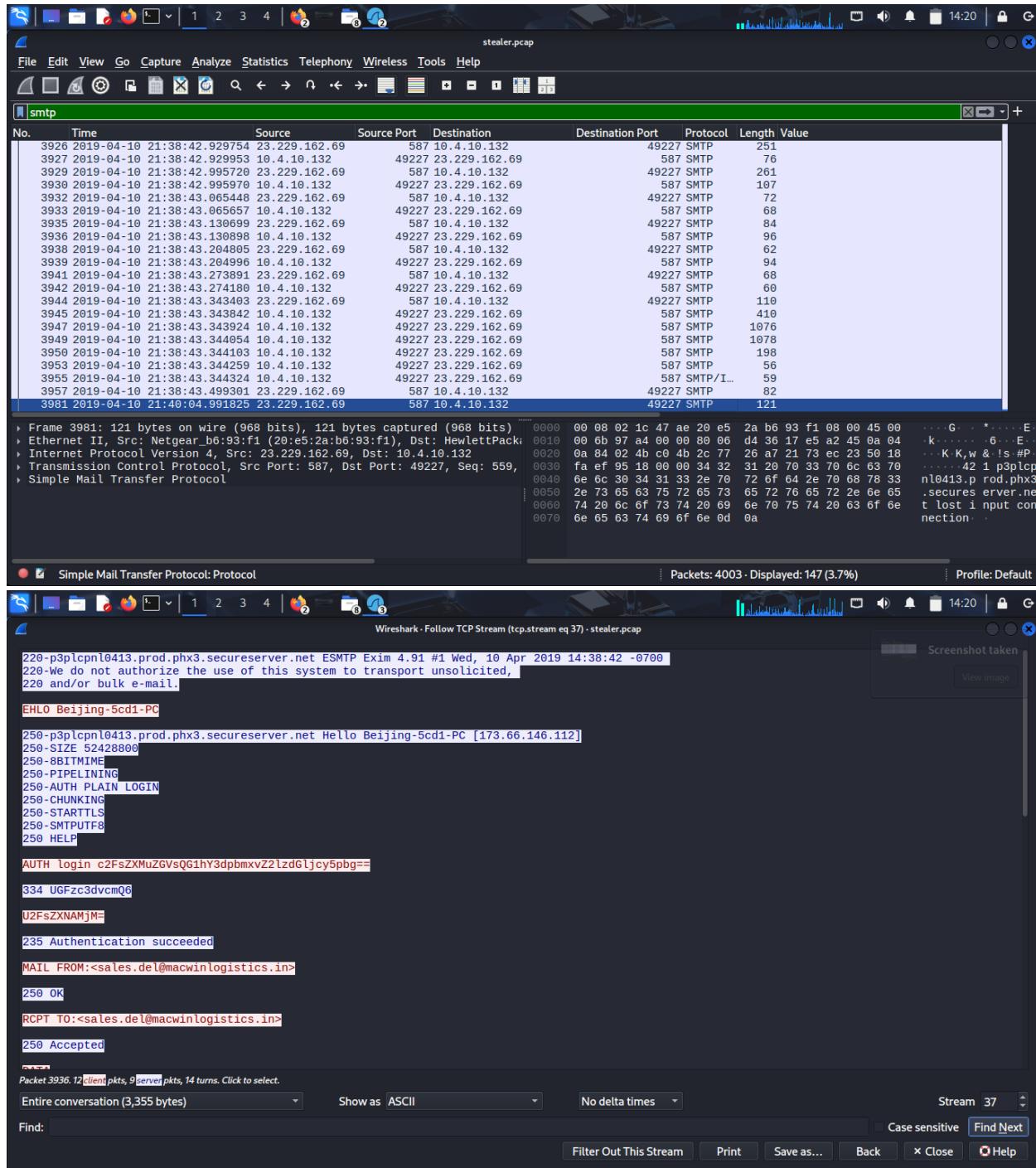


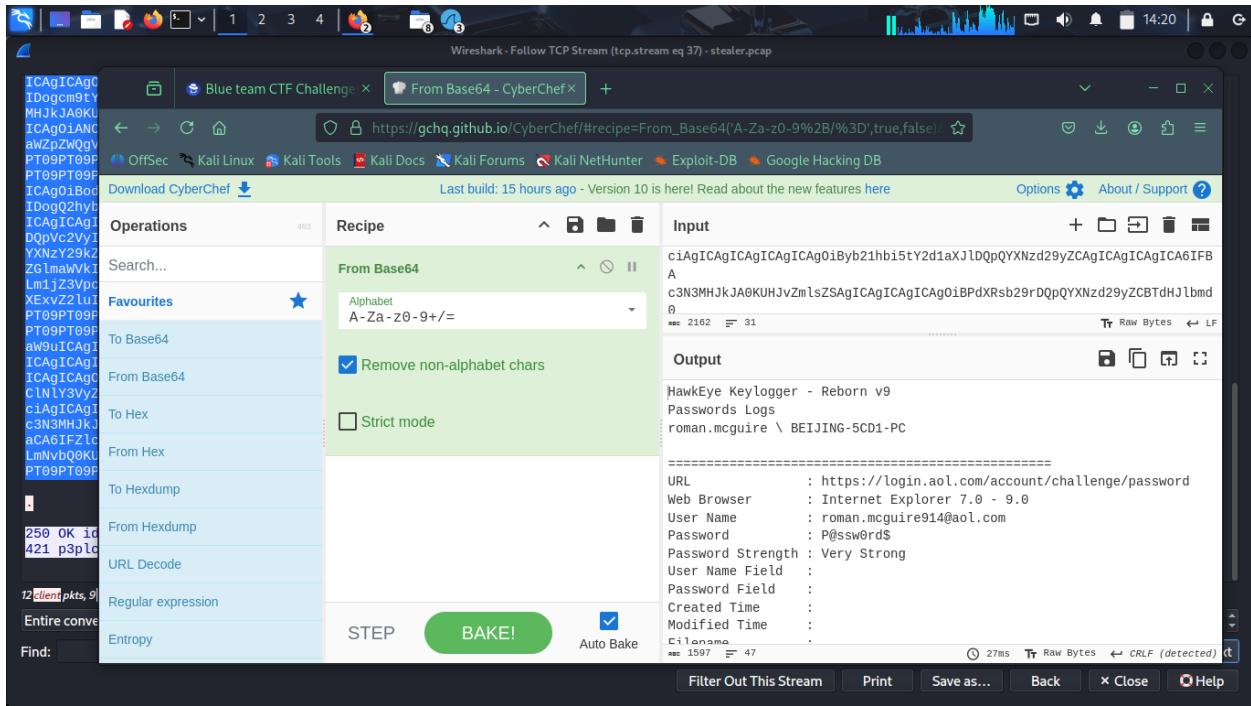


Timeline Reconstruction

- **Initial File Download:** 20:37:54 UTC
- **SMTP Exfiltration End:** 21:40:04 UTC

All events occurred within ~1 hour of the initial infection, showing rapid execution of the malware payload and data exfiltration.



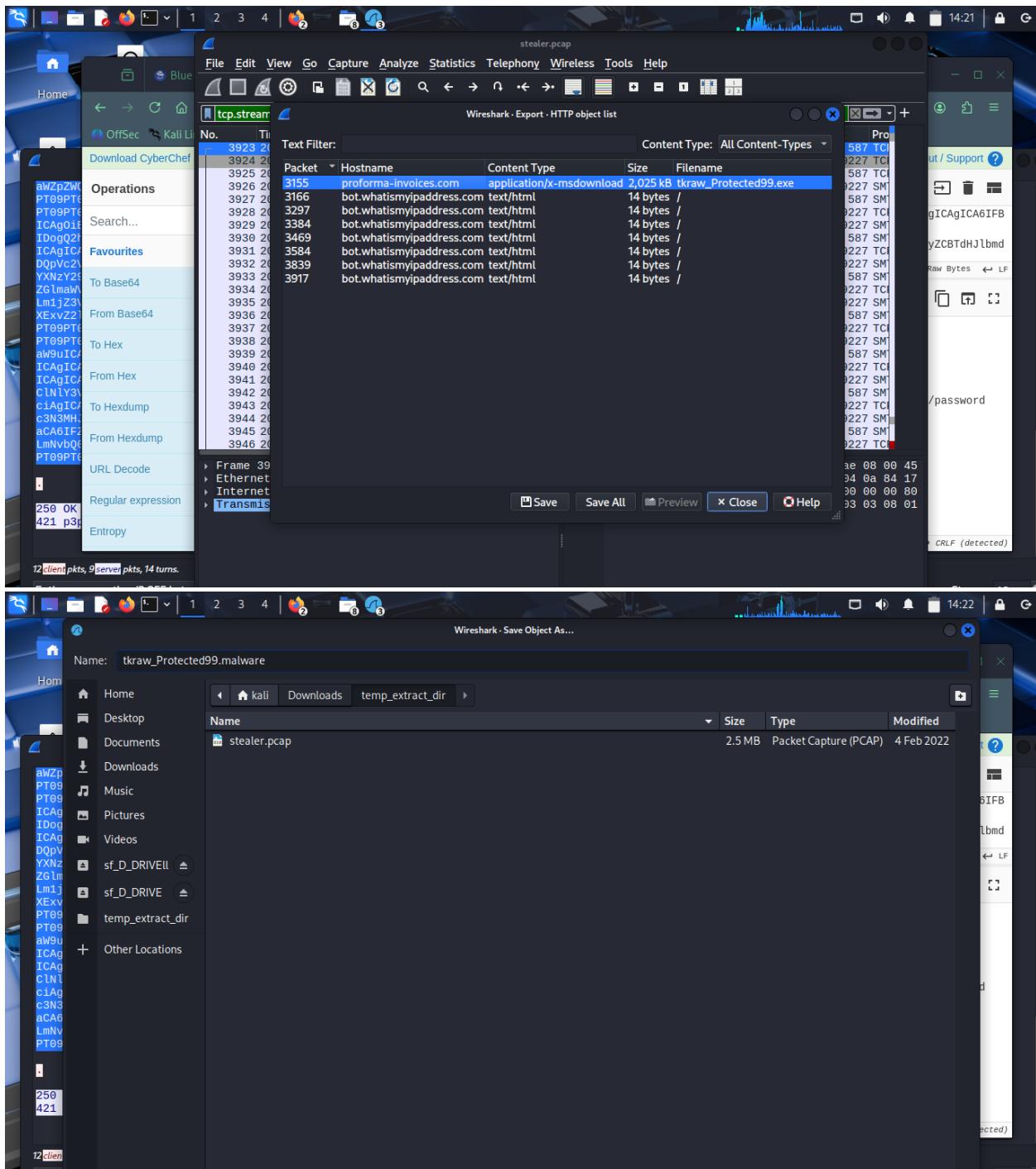


Malware File Extraction

Using `File > Export Objects > HTTP` in Wireshark, we extracted the malicious file:

- **File Name:** TKraore_protected99.exe
- **Delivery Domain:** pro-invoices.com

Defender was disabled temporarily in a sandboxed VM before export to avoid automatic detection or deletion.



File Hashing & VirusTotal Analysis

Generated hash via PowerShell:

```
powershell
Get-FileHash .\TKraore_protected99.exe -Algorithm SHA256
```

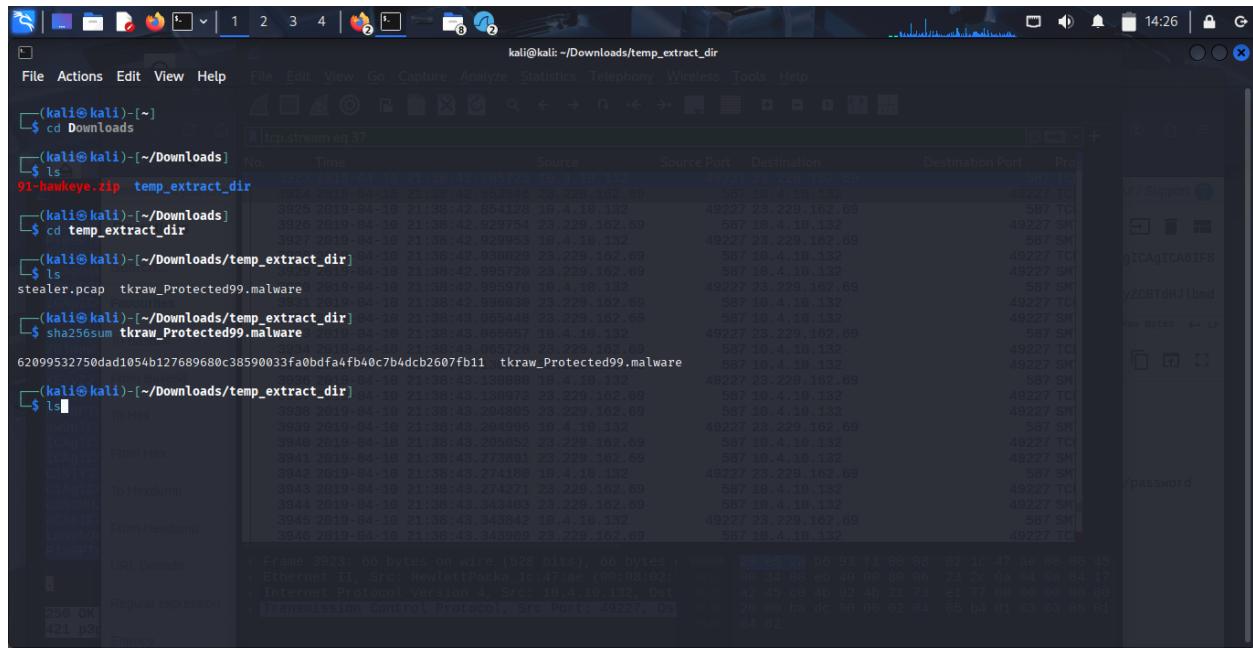
Submitted to VirusTotal:

- **SHA256:** [Redacted for brevity]
- **Detections:** 57 vendors flagged the file as malicious
- **Label:** Trojan.Autoit.Gen8 (associated with **Hawkeye** malware)
- **Threat Classification:** Remote Access Trojan (RAT) with keylogging

VirusTotal's **Relations** tab confirmed that the binary contacted:

bot.whatismyipaddress.com

This aligns with the Wireshark findings, suggesting the malware performs periodic external IP checks post-installation.



55/70 security vendors flagged this file as malicious

62099532750dad1054b127689680c38590033fa0bdfa4fb40c7b4dcb2607fb11

tkraw_Protected99.exe

Size: 1.93 MB | Last Analysis Date: 5 days ago | EXE

Community Score: 42

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.

Popular threat label: trojan.autoit/gen8

Threat categories: trojan

Family labels: autoit, gen8, hawkeye

Security vendors' analysis: 10/10

Family:

Show more

FileScan.IO 1 year ago

FileScan.IO Analysis:
Verdict: MALICIOUS
Confidence: 100/100
Tags: nymeria,autoit,control,greyware,keylogger,lolbin,shell32,peexe
Hosts: 255.255.255.255
Report: <https://www.filescan.io/reports/62099532750dad1054b127689680c38590033fa0bdfa4fb40c7b4dcb2607fb11/a26cb8f4-2f7e-4c49-a15f-a2c2c03b3c06>

FileScan.IO 2 years ago

FileScan.IO Analysis:
Verdict: MALICIOUS

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.

Contacted URLs (1)

Scanned	Detections	Status	URL
2025-07-24	9 / 97	404	http://pomf.cat/upload.php

Contacted Domains (13)

Domain	Detections	Created	Registrar
154.210.82.20.in-addr.arpa	0 / 94	-	-
240.143.123.92.in-addr.arpa	0 / 94	-	-
29.220.184.93.in-addr.arpa	0 / 94	-	-
49.28.101.95.in-addr.arpa	0 / 94	-	-
55.224.31.184.in-addr.arpa	0 / 94	-	-
61.234.212.23.in-addr.arpa	0 / 94	-	-

Details

File Details

DetectItEasy	PE32 Library: Autolt (3.XX) Compiler: EP:Microsoft Visual C/C++ (2013-2017) [EXE32] Compiler: Microsoft Visual C/C++ (18.00.40629) [POGO...]
Majika	PEBIN
File size	1.93 MB (2025472 bytes)

History

Creation Time	2019-04-10 04:43:40 UTC
First Seen In The Wild	2023-01-20 16:51:33 UTC
First Submission	2019-04-10 06:29:31 UTC
Last Submission	2025-08-06 15:42:50 UTC
Last Analysis	2025-08-01 11:16:54 UTC

Names

- tkraw_Protected99.exe
- tkraw_Protected99.txt
- Cert
- 91-hawkeye.zip
- hawkeye.malware
- tkraw_Protected99.malware
- tkraw_Protected99_s_m
- malware.exe

Threat Intelligence (OSINT)

External IP Address: 217.11.182.38

- Queried on AbuseIPDB
- ISP: OVH SAS (commonly abused by threat actors)
- Usage: Data center/web hosting
- Country: France
- VirusTotal: 4 security vendors flagged as malicious

Malicious Domain: `pro-invoices.com`

- **WHOIS:** Domain is currently for sale (possible burner domain)
- **VirusTotal:** Flagged by 12 vendors, including phishing classifications
- **Domain History:** Two IP changes over 5 years, suspiciously minimal for legitimate domains

Check an IP Address, Domain Name, or Subnet
e.g. 67.79.119.116, [microsoft.com](https://www.microsoft.com), or 5.188.10.0/24

217.182.138.150

ISP: OVH SAS
Usage Type: Data Center/Web Hosting/Transit
ASN: Unknown
Hostname(s): ns3072569.ip-217-182-138.eu
Domain Name: ovh.net
Country: France
City: Dunkerque, Hauts-de-France

IP info including ISP, Usage Type, and Location provided by IPInfo. Updated biweekly.

REPORT 217.182.138.150 WHOIS 217.182.138.150

Did you intend to search across the file corpus instead? [Click here](#)

2/94 security vendors flagged this IP address as malicious

217.182.138.150 (217.182.0.0/16)
AS 16276 (OVH SAS)

FR | Last Analysis Date: 1 month ago

Detection Details Relations Community 3

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to [automate checks](#).

Security vendors' analysis

alphaMountain.ai	Malicious	Webscout	Malicious
Abusix	Clean	Acronis	Clean

The screenshot shows a browser window with two tabs open. The top tab is on [DomainTools](https://whois.domaintools.com/proforma-invoices.com), displaying the Whois Record for `proforma-invoices.com`. The record indicates the domain is available for sale. The bottom tab is on [VirusTotal](https://www.virustotal.com/gui/domain/proforma-invoices.com), showing the domain's analysis. 11 out of 94 security vendors flagged the domain as malicious. The analysis table includes entries from alphaMountain.ai (Malicious), CyRadar (Malicious), BitDefender (Phishing), Fortinet (Malware), and others.

Email Domain: `macwinlogistics.com`

- VirusTotal shows:
 - No explicit flagging
 - 10+ files communicating with it, linked to Hawkeye
- WHOIS: Domain is also currently listed for sale

Screenshot of a web browser showing the VirusTotal analysis page for the domain `macwinlogistics.in`.

The VirusTotal interface displays the following information:

- Community Score:** 0 / 94
- At least 10 detected files communicating with this domain**
- Domain Details:** `macwinlogistics.in`, Creation Date: 10 months ago, Last Analysis Date: 10 days ago
- File Types:** top-1M
- Actions:** Reanalyze, Similar, More, Sign in, Sign up
- Navigation:** DETECTION, DETAILS, RELATIONS, COMMUNITY
- Community Callout:** Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.
- Security vendors' analysis:**
 - Abusix: Clean
 - Acronis: Clean
 - ADMINUSLabs: Clean
 - AI Labs (MONITORAPP): Clean

Below the VirusTotal analysis, the browser window shows the WHOIS lookup for `macwinlogistics.in` on `whois.domaintools.com`.

The DomainTools WHOIS record for `macwinlogistics.in` includes the following details:

- Domain Profile:**
 - Registrar:** Tucows Domains Inc.
 - IANA ID:** 69
 - URL:** www.tucowsdomains.com
 - Whois Server:** `whois.tucows.com`
 - Contact:** `reg_finance@tucows.com` (p) +14165530123
- Registrar Status:** `clientTransferProhibited, clientUpdateProhibited`
- Dates:** 321 days old, Created on 2024-09-19, Expires on 2025-09-19, Updated on 2025-01-15
- Name Servers:** NS-CLOUD-C1.GOOGLEDOMAINS.COM (has 10,844,663 domains), NS-CLOUD-C2.GOOGLEDOMAINS.COM (has 10,844,663 domains), NS-CLOUD-C3.GOOGLEDOMAINS.COM (has 10,844,663 domains)

On the right side of the DomainTools page, there is a sidebar for **DomainTools Iris** and a list of **Tools**:

- DomainTools Iris:** The gold-standard Internet intelligence platform. [Learn More](#)
- Tools:**
 - Hosting History
 - Monitor Domain Properties
 - Reverse IP Address Lookup
 - Network Tools
 - Visit Website

Blue team CTF Challenge | From Base64 - CyberChef | VirusTotal - Domain - ma | 217.182.138.150 | OVH SA | Macwinlogistics.in WHOIS

https://whois.domaintools.com/macwinlogistics.in

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HOME RESEARCH

DomainTools PROFILE CONNECT MONITOR SUPPORT Whois Lookup

INS-CLOUD-C4.GOOGLECDOMAINS.COM (has 10,044,000 domains)

IP Address 23.227.38.74 - 4,826,468 other sites hosted on this server

IP Location Canada - Ontario - Ottawa - Shopify Inc.

ASN AS13335 CLOUDFLARENET, US (registered Jul 14, 2010)

IP History 3 changes on 3 unique IP addresses over 2 years

Hosting History 3 changes on 3 unique name servers over 11 years

Whois Record (last updated on 2025-08-07)

Domain Name: macwinlogistics.in
 Registry Domain ID: DFEEC8A4AB4FBC467B901213ABB6A0C5FB-IN
 Registrar WHOIS Server: whois.tucows.com
 Registrar URL: www.tucowsdomains.com
 Updated Date: 2025-01-15T23:32:44.455Z
 Creation Date: 2024-09-19T04:31:45.274Z
 Registry Expiry Date: 2025-09-19T04:31:45.274Z
 Registrar: Tucows Domains Inc.
 Registrar IANA ID: 69
 Registrar Abuse Contact Email: reg_finance@tucows.com
 Registrar Abuse Contact Phone: +1.4165530123
 Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
 Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited

Screenshot (Opening soon)

View Screenshot History

Available TLDs

General TLDs Country TLDs

The following domains are available through our preferred partners. Select domains below for more information. (3rd party site)

■ Taken domain.
 ■ Available domain.
 ■ Deleted previously owned domain.

Blue team CTF Challenge | From Base64 - CyberChef | VirusTotal - Domain - ma | 217.182.138.150 | OVH SA | Macwinlogistics.in WHOIS

https://whois.domaintools.com/macwinlogistics.in

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Screenshot taken

View image

DomainTools PROFILE CONNECT MONITOR SUPPORT Whois Lookup

Registrar IANA ID: 69
 Registrar Abuse Contact Email: reg_finance@tucows.com
 Registrar Abuse Contact Phone: +1.4165530123
 Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
 Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
 Registry Registrant ID: REDACTED FOR PRIVACY
 Registrant Name: REDACTED FOR PRIVACY
 Registrant Organization: My Store
 Registrant Street: REDACTED FOR PRIVACY
 Registrant City: REDACTED FOR PRIVACY
 Registrant State/Province: N/A
 Registrant Postal Code: REDACTED FOR PRIVACY
 Registrant Country: TW
 Registrant Phone: REDACTED FOR PRIVACY
 Registrant Fax: REDACTED FOR PRIVACY
 Registrant Email: Please query the RDSS service of the Registrar of Record identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.
 Registry Admin ID: REDACTED FOR PRIVACY
 Admin Name: REDACTED FOR PRIVACY
 Admin Organization: REDACTED FOR PRIVACY
 Admin Street: REDACTED FOR PRIVACY
 Admin City: REDACTED FOR PRIVACY
 Admin State/Province: REDACTED FOR PRIVACY
 Admin Postal Code: REDACTED FOR PRIVACY

information: (3rd party site)

■ Taken domain.
 ■ Available domain.
 ■ Deleted previously owned domain.

MacWinLogistics.com View Whois
 MacWinLogistics.net Buy Domain
 MacWinLogistics.org Buy Domain
 MacWinLogistics.info Buy Domain
 MacWinLogistics.biz Buy Domain
 MacWinLogistics.us Buy Domain

Wireshark - Conversations - stealer.pcap

Conversation Settings

Ethernet - 6 IPv4 - 11 IPv6 TCP - 39 UDP - 51

Address A	Address B	Packets	Bytes	Stream ID	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start
00:08:02:1c:47:ae	01:00:5e:00:00:16	23	1 kB	3	23	1 kB	0	0 bytes	109.878104
00:08:02:1c:47:ae	01:00:5e:00:00:fc	10	750 bytes	5	10	750 bytes	0	0 bytes	2663.801528
00:08:02:1c:47:ae	01:00:5e:7f:ff:ff	74	29 kB	4	74	29 kB	0	0 bytes	109.882622
00:08:02:1c:47:ae	20:e5:2a:b6:93:f1	3,352	2 MB	2	1,576	110 kB	1,776	2 MB	47.459211
00:08:02:1c:47:ae	a4:1f:72:c2:09:6a	513	114 kB	0	279	68 kB	234	46 kB	0.000000
00:08:02:1c:47:ae	ff:ff:ff:ff:ff:ff	31	4 kB	1	31	4 kB	0	0 bytes	46.633556

Protocol: Ethernet, Bluetooth, BPv7, DCCP, Ethernet

Filter list for specific type

Official walkthru

Frame 3923: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface eth0 at 16:01:45.000000000000 → (Hewlett-Packard) [ether 00:08:02]
 Ethernet II, Src: HewlettPacka_1c:47:ae (00:08:02:1c:47:ae), Dst: 01:00:5e:00:00:16 (01:00:5e:00:00:16)
 Internet Protocol Version 4, Src: 10.4.10.132, Dst: 255.255.255.1 (255.255.255.1)
 Transmission Control Protocol, Src Port: 49227, Dst Port: 587
 Source Port: 49227
 Destination Port: 587
 [Stream index: 37]
 [Stream Packet Number: 1]
 [Conversation completeness: Complete, WITH_DATA]
 [TCP Segment Len: 0]

0000 20 e5 2a b6 93 f1 00 08 02 1c 47 ae 08 00 45
 0010 00 34 08 e6 40 00 80 06 23 2c 0a 04 0a 84 17
 0020 a2 45 c0 4b 02 4b 21 73 e1 77 00 00 00 00 80
 0030 20 00 ba dc 00 00 00 02 04 05 b4 01 03 03 08 01
 0040 04 02

Featured Write

16:01

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00:08:02

Results for '00:08:02'

00:08:02 Hewlett Packard

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People also ask:

- https://en.wikipedia.org/wiki/HP_Inc. #lett-Packard still exist?

Wireshark analysis of a PCAP file named "stealer.pcap":

Endpoint Settings (selected tab: Ethernet - 7)

Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Country	City	Latitude	Longitude	AS Number	AS Organization
10.4.10.2	42	5 kB	0	0 bytes	42	5 kB						
10.4.10.4	513	114 kB	234	46 kB	279	68 kB						
10.4.10.132	4,003	2 MB	1,993	212 kB	2,010	2 MB						
10.4.10.255	30	3 kB	0	0 bytes	30	3 kB						
23.229.162.69	280	39 kB	161	13 kB	119	26 kB						
66.171.248.178	63	5 kB	28	3 kB	35	2 kB						
216.58.193.131	20	8 kB	11	6 kB	9	3 kB						
217.182.138.150	2,947	2 MB	1,576	2 MB	1,371	74 kB						
224.0.0.22	23	1 kB	0	0 bytes	23	1 kB						
224.0.0.252	10	750 bytes	0	0 bytes	10	750 bytes						
239.255.255.250	74	29 kB	0	0 bytes	74	29 kB						
255.255.255.255	1	342 bytes	0	0 bytes	1	342 bytes						

Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface Ethernet II, Src: HewlettPackard (10.4.10.132), Dst: (217.182.138.150) [ether]

Frame details:

- Ethernet II, Src: HewlettPackard (10.4.10.132), Dst: (217.182.138.150) [ether]
- Internet Protocol Version 4, Src: 10.4.10.132, Dst: 217.182.138.150
- Transmission Control Protocol, Src Port: 49190, Dst Port: 80

Hex dump:

```

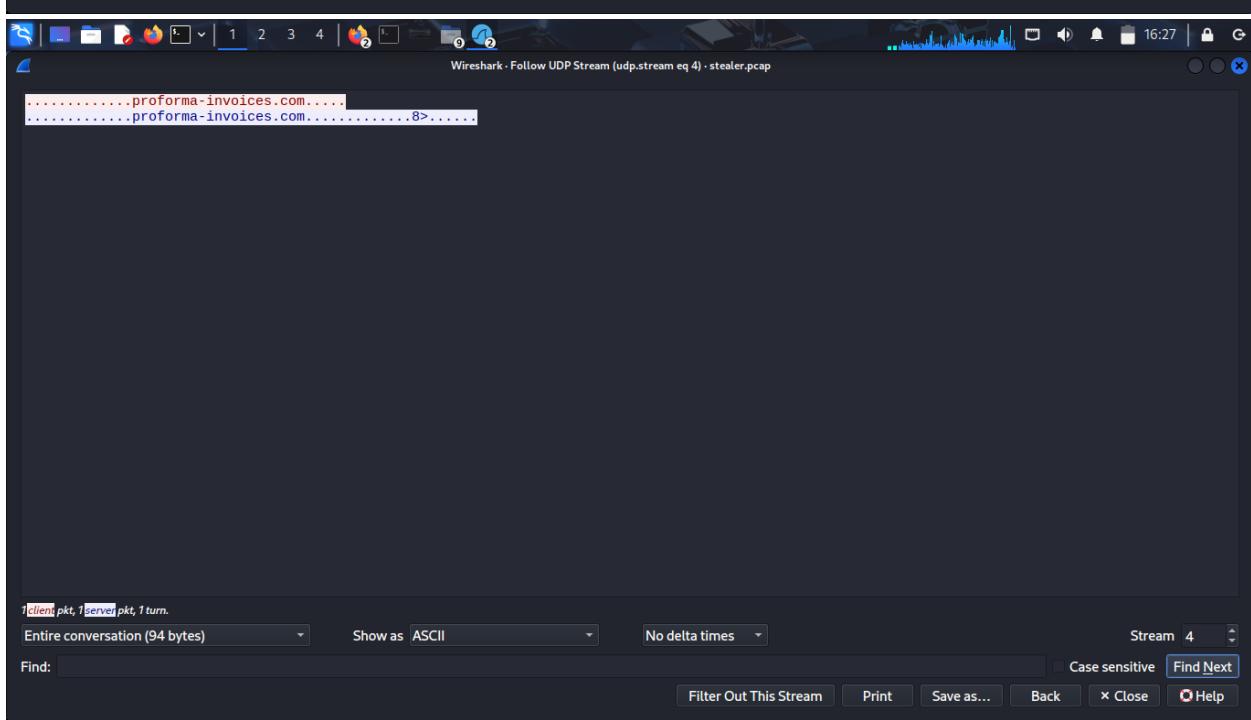
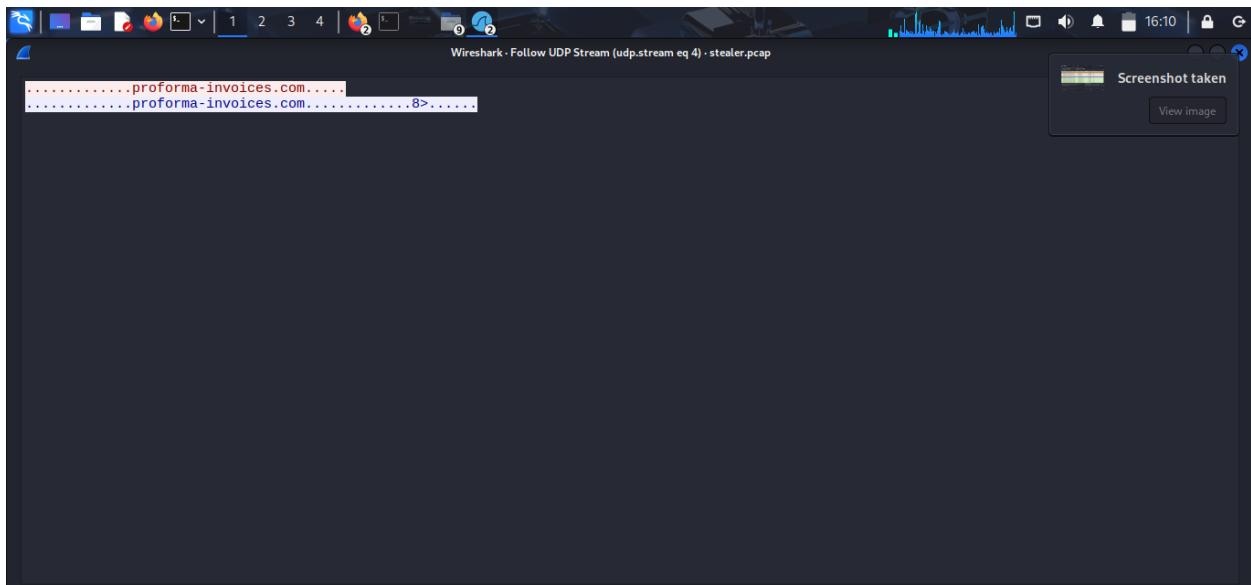
0000  a4 1f 72 c2 09 6a 00 08  02 1c 47 ae 08 00 45
0010  00 34 01 13 49 00 80 06  d1 21 0a 04 0a 84 0a
0020  0a 04 c0 26 00 58 e4 1d  86 c7 00 00 00 00 00 00
0030  20 00 fb 1c 00 00 02 04  05 b4 01 03 03 08 01
0040  04 02

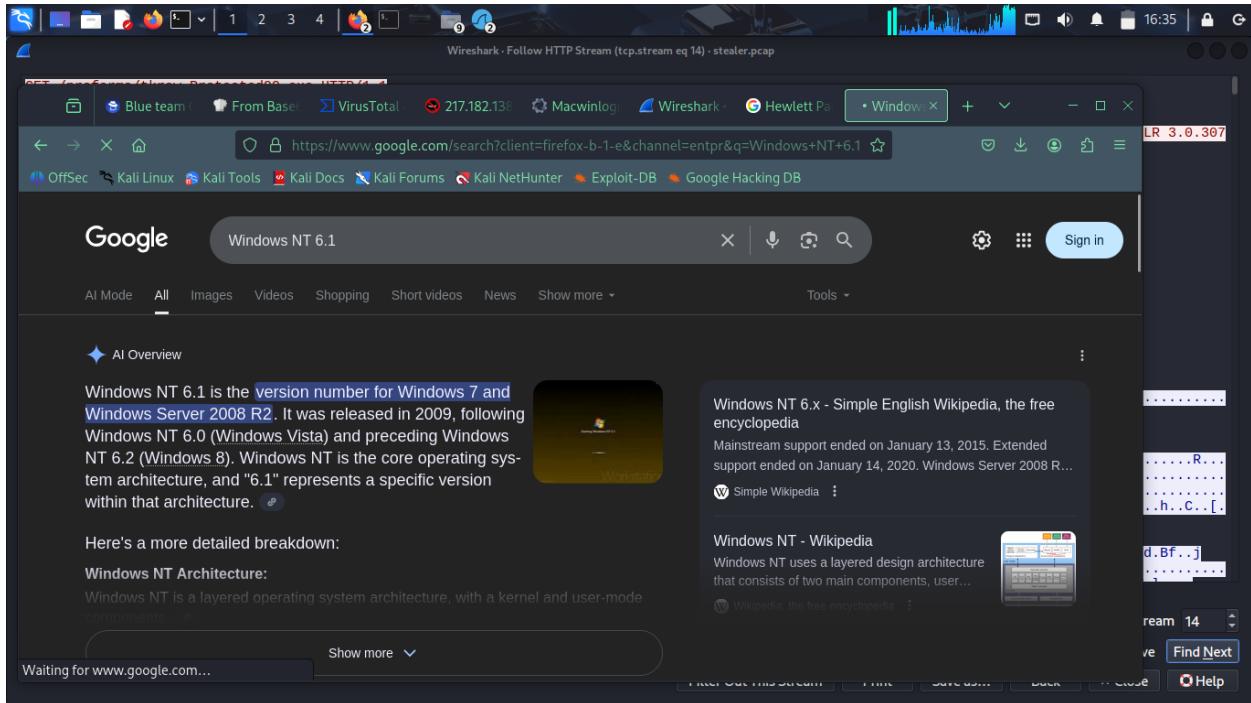
```

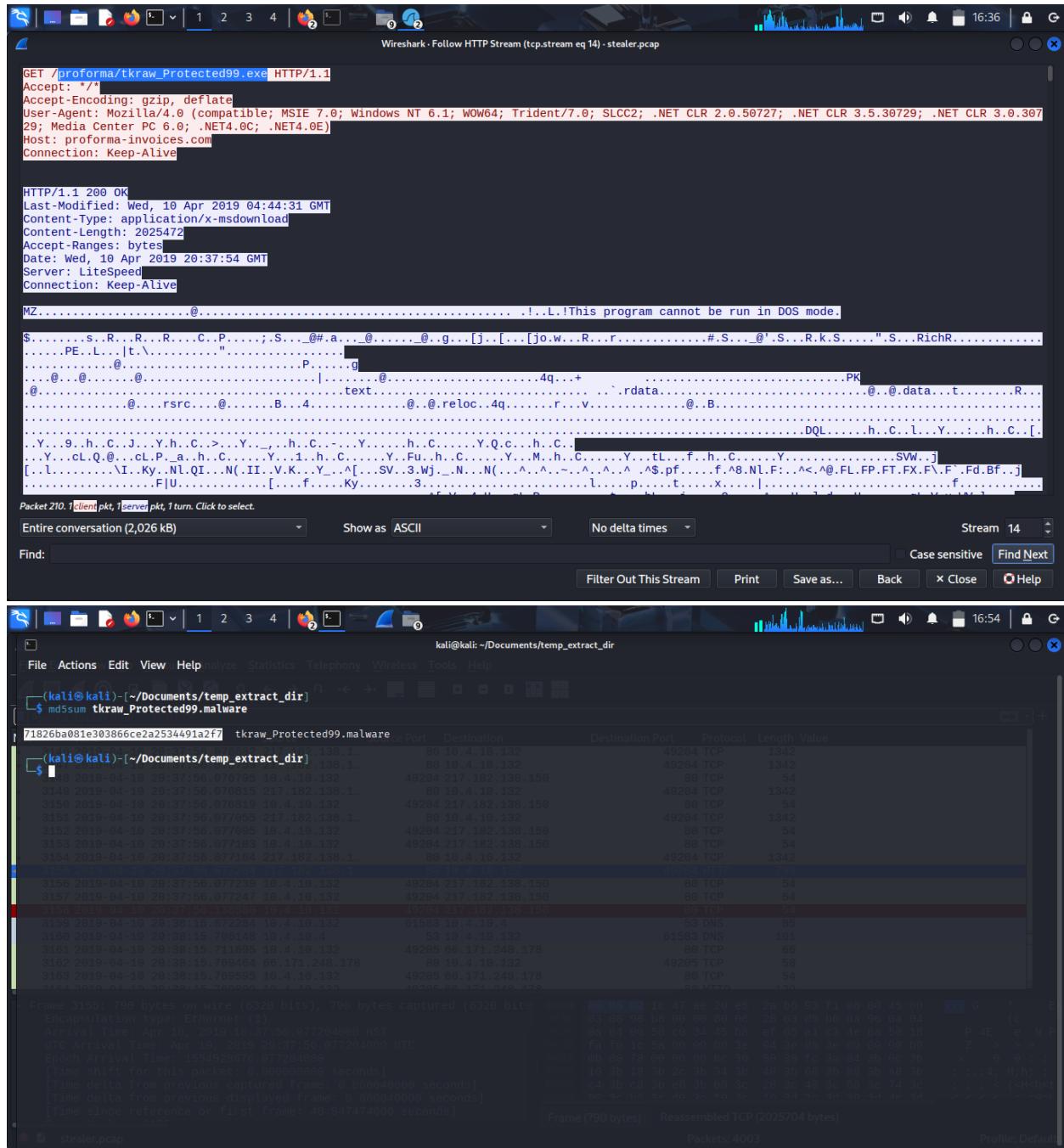
Wireshark Screenshot showing DNS traffic for the file 'stealer.pcap'. The packet list shows numerous DNS requests and responses, primarily from source 10.4.10.132 to destination 10.4.10.4. The captured data is 134 bytes long, and the total length is 1762 bits. The DNS protocol is used for 134 bytes of the total 1762 bits.

No.	Time	Source	Source Port	Destination	Destination Port	Protocol	Length	Value
116	2019-04-10 20:37:33.377476	10.4.10.132	51699	10.4.10.4	53	DNS	134	
117	2019-04-10 20:37:33.377741	10.4.10.4	53	10.4.10.132	51699	DNS	213	
118	2019-04-10 20:37:33.378245	10.4.10.132	53083	10.4.10.4	53	DNS	103	
119	2019-04-10 20:37:33.378390	10.4.10.4	53	10.4.10.132	53083	DNS	182	
174	2019-04-10 20:37:33.911651	10.4.10.132	53233	10.4.10.4	53	DNS	76	
177	2019-04-10 20:37:33.937985	10.4.10.4	53	10.4.10.132	53233	DNS	92	
204	2019-04-10 20:37:53.791017	10.4.10.132	54662	10.4.10.4	53	DNS	81	
266	2019-04-10 20:37:54.577019	10.4.10.4	53	10.4.10.132	54662	DNS	97	
3159	2019-04-10 20:38:15.672284	10.4.10.132	61583	10.4.10.4	53	DNS	85	
3160	2019-04-10 20:38:15.706148	10.4.10.4	53	10.4.10.132	61583	DNS	101	
3179	2019-04-10 20:38:15.832094	10.4.10.132	59471	10.4.10.4	53	DNS	78	
3171	2019-04-10 20:38:15.912953	10.4.10.4	53	10.4.10.132	59471	DNS	94	
3268	2019-04-10 20:47:58.641867	10.4.10.132	51945	10.4.10.4	53	DNS	81	
3269	2019-04-10 20:47:58.675076	10.4.10.4	53	10.4.10.132	51945	DNS	97	
3290	2019-04-10 20:48:20.054661	10.4.10.132	64679	10.4.10.4	53	DNS	85	
3291	2019-04-10 20:48:20.077594	10.4.10.4	53	10.4.10.132	64679	DNS	101	
3301	2019-04-10 20:48:20.203215	10.4.10.132	61356	10.4.10.4	53	DNS	78	
3302	2019-04-10 20:48:20.334494	10.4.10.4	53	10.4.10.132	61356	DNS	94	
3377	2019-04-10 20:58:24.365581	10.4.10.132	59430	10.4.10.4	53	DNS	85	
3378	2019-04-10 20:58:24.396712	10.4.10.4	53	10.4.10.132	59430	DNS	101	
3388	2019-04-10 20:58:24.523825	10.4.10.132	55146	10.4.10.4	53	DNS	78	

Wireshark Screenshot showing network traffic for a file transfer. The packet list shows various SMB and TCP connections between 10.4.10.132 and 10.4.10.4. The details and bytes panes are visible at the bottom, showing the structure of the transferred file.







DNS Activity

- **DNS Server IP:** 10.4.104.104
Identified by observing responses from port 53 to the internal host.
 - **Queried Domain (Packet #204):** pro-invoices.com
 - **Resolved IP for Domain:** 217.182.138.150

- **Domain Geolocation:** France 🇫🇷 (via IP lookup tools)

Wireshark Screenshot showing SMTP traffic (Protocol: SMTP, Length: 251 bytes) and a detailed hex dump of the captured frame. The frame is labeled as a Simple Mail Transfer Protocol (Protocol: 4003) with 147 (3.7%) packets displayed.

IPInfo.io Analysis for IP 23.229.162.69:

- Geolocation: Tempe, Arizona, US
- Privacy: hosting
- ASN: AS26496 - GoDaddy.com, LLC
- Hostname: 69.162.229.23.host.secureserver.net
- Range: 23.229.128.0/17

Host Identification

- **Hostname:** BEIJING-D5CD1-PC
- **Internal IP:** 10.4.104.132
- **Public IP:** 173.66.146.12

Target Email Address

- sales@dellmacwinlogistics.com

```

220-p3plcpnl0413.prod.phx3.secureserver.net ESMTP Exim 4.91 #1 Wed, 10 Apr 2019 13:38:15 -0700
220-We do not authorize the use of this system to transport unsolicited,
220 and/or bulk e-mail.

EHLO Beijing-5cd1-PC

250-p3plcpnl0413.prod.phx3.secureserver.net Hello Beijing-5cd1-PC [173.66.146.112]
250-SIZE 52428800
250-8BITMIME
250-PIPELINING
250-AUTH PLAIN LOGIN
250-CHUNKING
250-STARTTLS
250-SMTPUTF8
250-HELP

AUTH login c2FsZXMuZGVsQG1hY3dpbmrvZ2LzdGLjcy5pbg==

334 UGFzc3dvcmQ6
U2FsZXNAMjM=
235 Authentication succeeded

MAIL FROM:<sales.del@macwinlogistics.in>
250 OK

RCPT TO:<sales.del@macwinlogistics.in>
Packet 3175. 12 client pkts, 9 server pkts, 14 turns. Click to select.

Entire conversation (3,355 bytes) Show as ASCII No delta times Stream 16
Find: Filter Out This Stream Print Save as... Back × Close ⚡ Help

```



```

220-p3plcpnl0413.prod.phx3.secureserver.net ESMTP Exim 4.91 #1 Wed, 10 Apr 2019 13:38:15 -0700
220-We do not authorize the use of this system to transport unsolicited,
220 and/or bulk e-mail.

EHLO Beijing-5cd1-PC

250-p3plcpnl0413.prod.phx3.secureserver.net Hello Beijing-5cd1-PC [173.66.146.112]
250-SIZE 52428800
250-8BITMIME
250-PIPELINING
250-AUTH PLAIN LOGIN
250-CHUNKING
250-STARTTLS
250-SMTPUTF8
250-HELP

AUTH login c2FsZXMuZGVsQG1hY3dpbmrvZ2LzdGLjcy5pbg==

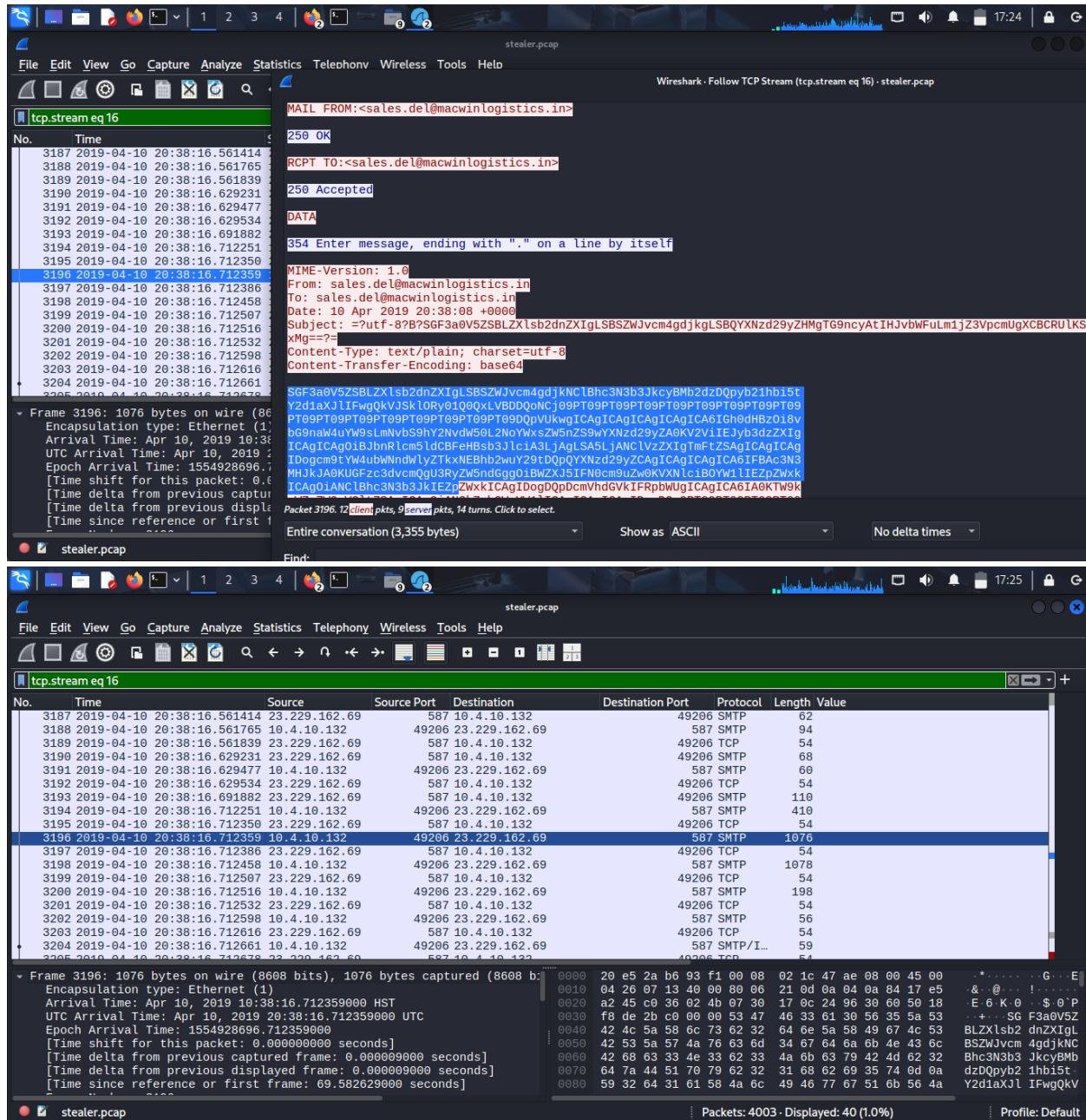
334 UGFzc3dvcmQ6
U2FsZXNAMjM=
235 Authentication succeeded

MAIL FROM:<sales.del@macwinlogistics.in>
250 OK

RCPT TO:<sales.del@macwinlogistics.in>
Packet 3187. 12 client pkts, 9 server pkts, 14 turns. Click to select.

Entire conversation (3,355 bytes) Show as ASCII No delta times Stream 16
Find: Filter Out This Stream Print Save as... Back × Close ⚡ Help

```



Conclusion:

This investigation successfully reconstructed a simulated credential exfiltration attack using deep PCAP analysis. By following a structured SOC workflow, the Hawkeye malware was identified as the primary actor. The timeline of activity was determined, sensitive data exfiltration paths were confirmed, and multiple internal hosts were identified as potentially affected.

This lab sharpened real-world forensics skills such as:

- Layer 2–Layer 7 analysis

- SMTP payload decoding
- IOC extraction
- Timeline reconstruction
- Cross-verification using OSINT and malware intelligence