

Network Forensics Incident Report

Case ID: 2026-LUMMA-001

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Subject: Analysis of Lumma Stealer Infection on Host **160.9.3.101**

Executive Summary

On September 3, 2025, a security incident was identified involving host **160.9.3.101**. Forensic analysis of network traffic (PCAP) confirmed a multi-stage infection starting with a malicious ZIP file download, followed by automated Command and Control (C2) beaconing via Windows PowerShell. The attack concluded with the successful exfiltration of system metadata to an external server.

Indicators of Compromise (IOCs)

The following forensic artifacts were identified during the investigation:

- **Victim IP:** **160.9.3.101**
- **Malicious Delivery IP:** **85.209.129.105** (Port 2020)
- **C2 / Exfiltration IP:** **104.16.231.132**
- **Malware Hash (SHA-256):**
e2c0390d80410e4358435c10fc3d27b788d2299daa9d052d9c16526ee4635ad
- **User-Agent:** **WindowsPowerShell/5.1.26100.4768**

Technical Analysis & Evidence

1. Delivery Vector (The Download)

The initial infection began with a DNS query for a suspicious domain, leading to a GET request for a resource named /19. Despite the obfuscated naming convention, HTTP metadata confirmed the delivery of a compressed payload.

The screenshot shows a NetworkMiner capture window. The top status bar indicates the file is "2025-09-03-Kongtuke-ClickFix-leading-to-Lumma-Stealer.pcap". The menu bar includes File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, Help. The toolbar contains icons for file operations, zoom, and search. A red box highlights the status bar and the first few items in the menu. The main pane displays a list of network packets. The selected packet (highlighted with a blue box) is a response from 160.9.3.101 with a length of 857 bytes, labeled as "HTTP/1.1 200 OK (application/x-zip-compressed)". Below the list is a detailed packet dump in hex and ASCII format, showing the HTTP headers and body. The bottom status bar shows the byte offset (000000180), current byte (73), and file size (65). A red box highlights the status bar and the bottom right corner.

2. Execution Analysis (The Actor)

By following the HTTP stream for the /notify endpoint, it was determined that the requests were initiated by **Windows PowerShell** rather than a standard web browser. The host performed a check-in by sending message=sended, which was acknowledged by the server with a good response.

```
Wireshark · Follow HTTP Stream (tcp.stream eq 31) · 2025-09-03-Kongtuke-ClickFix-leading-to-Lumma-Stealer.pcap

POST /notify HTTP/1.1
User-Agent: Mozilla/5.0 (Windows NT; Windows NT 10.0; en-US) WindowsPowerShell/5.1.26100.4768
Content-Type: application/x-www-form-urlencoded
Host: 85.209.129.105:2020
Content-Length: 14
Expect: 100-continue
Connection: Keep-Alive

message=sendedHTTP/1.1 100 Continue

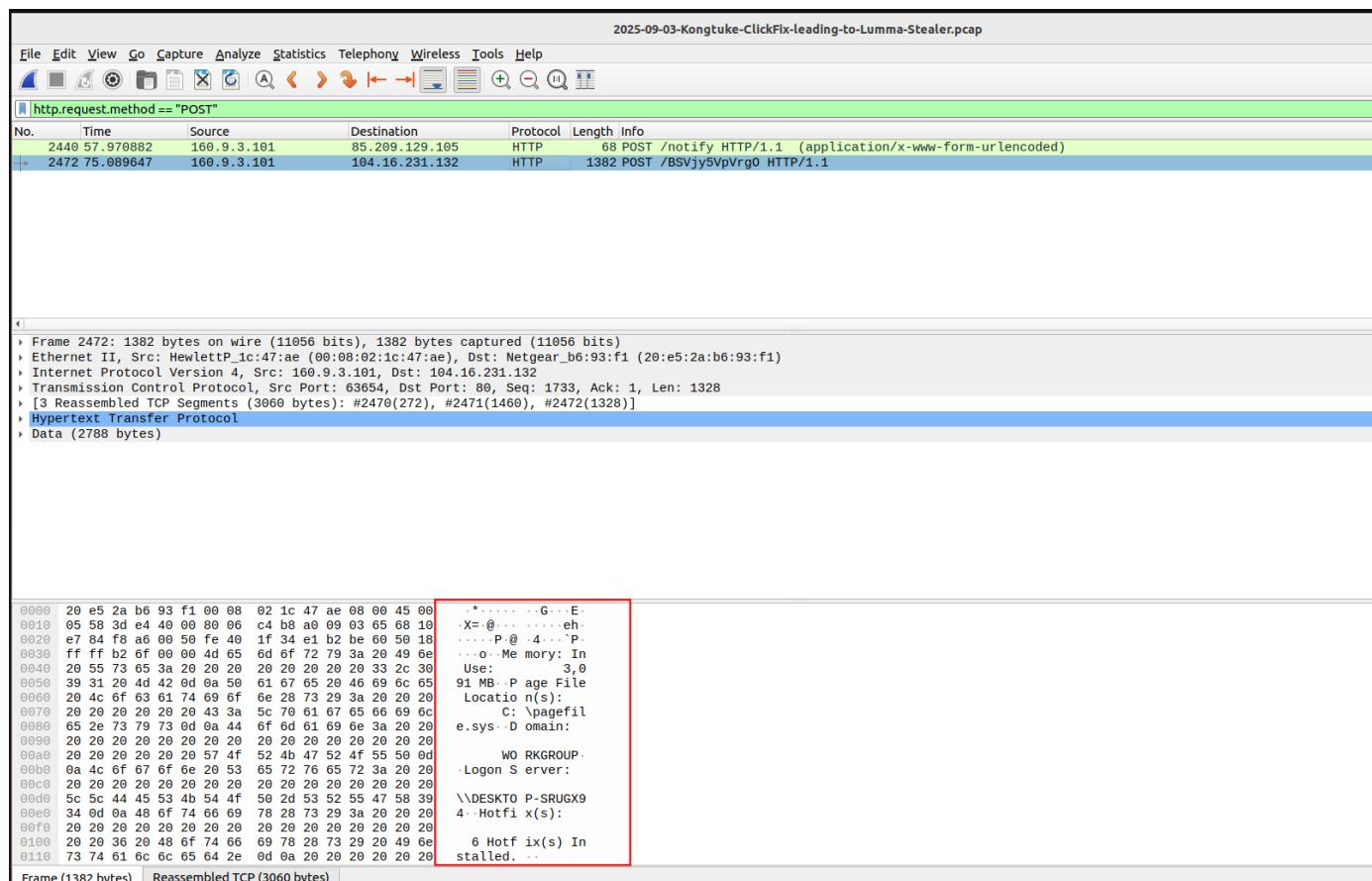
HTTP/1.1 100 Continue

HTTP/1.1 200 OK
Server: Werkzeug/3.1.3 Python/3.13.5
Date: Wed, 03 Sep 2025 15:55:10 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 4
Connection: close

good
```

3. Exfiltration Analysis (The Theft)

The final stage involved the theft of host-specific information. A POST request to **104.16.231.132** contained clear-text strings detailing the victim's hardware and network environment.



4. Forensic Verification

The malicious ZIP file was exported from the traffic and hashed using SHA-256.

```
~/Desktop/hash$ ls
test111
~/Desktop/hash$ cd test111 & sha256sum test111
e2c0396d88410e4358435c10cf3d27b788d2299da9d052d9c16520ee4035ad test111
~/Desktop/hash$
```

Verification via VirusTotal confirmed the file as a Trojan-type malware belonging to the **Lumma Stealer** family, with a detection rate of 24/66 vendors.

The screenshot shows the VirusTotal analysis interface. At the top left, a circular progress bar indicates a 'Community Score' of 24 out of 66. To its right, a message states '24/66 security vendors flagged this file as malicious'. The main content area displays the file details: 'e2c0390d80410e4358435c10fc3d27b788d2299daa9d052d9c16526ee4835ad file.zip' with the note 'whl contains-pe'. On the right, file metadata includes 'Size 25.68 MB' and 'Last Analysis Date 27 days ago'. Navigation tabs at the top include DETECTION (selected), DETAILS, RELATIONS, and COMMUNITY (with a count of 3). Below these are sections for 'Join our Community' and threat labels ('trojan.python/pyagent', 'trojan'). A table titled 'Security vendors' analysis' lists 24 vendors and their findings. The Google entry is highlighted with a yellow box. The table columns are Vendor, Threat Type, and Vendor's Findings.

Vendor	Threat Type	Vendor's Findings
Alibaba	Trojan:Application!Obfus.4f2b9e04	AliCloud
ALYac	Trojan.GenericKD.77256641	Arcabit
Avast	Other:Malware-gen [Trj]	AVG
BitDefender	Trojan.GenericKD.77256641	CTX
Cynet	Malicious (score: 99)	Emsisoft
ESET-NOD32	Python/ShellCode.JY.Trojan	GData
Google	Detected	Ikarus
Jiangmin	Trojan.AD.dy	Kaspersky
Lionic	Trojan.ZIP.Python.4ic	Skyhigh (SWG)
Sophos	Troj/PyAgent-AW	Tencent
		Do you want to automate checks?

5. Conclusion

The investigation confirms that host **160.9.3.101** was compromised by Lumma Stealer. It is recommended to isolate the host, wipe and re-image the machine, and reset all user credentials that may have been stored in browser memory.