



NETWORK TRAFFIC ANALYSIS

Forensic Investigation Report

Case ID:	CASE-20260113-144236
Analyst:	Emrys
Evidence File:	amp.TCP.reflection.SYNACK.pcap
Report Generated:	2026-01-13T14:42:39

■ CONFIDENTIAL - FOR AUTHORIZED PERSONNEL ONLY ■

Executive Summary

Network traffic analysis was conducted on the provided PCAP file. The analysis identified 7055 unique source IP addresses and 1 unique destination IP addresses. No significant suspicious activity was detected during the analysis.

Evidence Integrity Verification

✓ Evidence Hash Verified

Hash Algorithm	Hash Value
SHA-256	9339d7bc9d78e04a189b027890355d0b3c2687a720c32606acfa31d5325cd87e
MD5	16356bde9ddedccf6f82de24944807b

File Size: 643,499 bytes

Verified: 2026-01-13T14:42:36.923050

Complete IP Address Inventory

Source IP Addresses

#	Source IP Address	Packet Count
1	172.99.233.20	93
2	216.223.207.13	78
3	104.252.89.100	4
4	142.252.108.143	3
5	107.164.191.88	3
6	107.186.51.40	3
7	172.252.86.79	3
8	104.252.165.232	3
9	172.120.244.120	3
10	107.187.47.12	3

Destination IP Addresses

#	Destination IP Address	Packet Count
1	10.10.10.10	7996

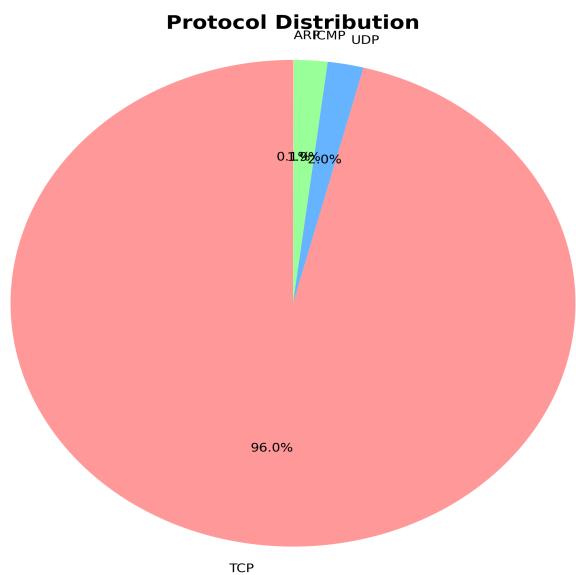
Total Unique Source IPs: 7055

Total Unique Destination IPs: 1

Protocol Distribution Analysis

Protocol	Packet Count	Percentage
TCP	7,679	95.99%
UDP	164	2.05%
ICMP	153	1.91%
ARP	4	0.05%

Protocol Distribution Chart



Suspicious Activity Analysis

✓ No suspicious activity detected.

CHAIN OF CUSTODY (CoC) FORM

Case Information

Case Title:	CASE-20260113-144236
Analyst:	Emrys
Case Description:	N/A
Date Started:	2026-01-13

Evidence Details

Evidence Type:	PCAP Network Capture File
File Name:	amp.TCP.reflection.SYNACK.pcap
File Size:	643,499 bytes
Evidence Source:	Digital Network Traffic Capture
Original Hash (SHA256):	9339d7bc9d78e04a189b027890355d0b3c2687a720c32606acfa31d5325cd87e
Original Hash (MD5):	16356bde9ddeddcff6f82de24944807b
Acquisition Date/Time:	2026-01-13T14:42:36

Storage & Integrity Information

Storage Location:	Local Evidence Repository
Backup Location:	Secure Backup System
Access Restriction:	Authorized Personnel Only
Final Hash Verification:	
Hash BEFORE Analysis:	9339d7bc9d78e04a189b027890355d0b3c2687a720c32606acfa31d5325cd87e
Hash AFTER Analysis:	9339d7bc9d78e04a189b027890355d0b3c2687a720c32606acfa31d5325cd87e
Integrity Status:	MATCHED ✓

Declaration:

I/We declare that the evidence was handled ethically and professionally. All procedures followed proper chain of custody protocols. Hash verification confirms evidence integrity has been maintained throughout the analysis.

Handling Log

No.	Date/Time	Handler Name	Action Taken	Purpose	Hash (Yes/No)	Verified
1	2026-01-13T14:42:36	Emrys	Evidence Acquired	PCAP file loaded for analysis. SHA256: 9339d7bc9d7	Yes	✓
2	2026-01-13T14:42:36	Emrys	Hash Calculated	SHA256 and MD5 hashes generated for integrity veri	Yes	✓
3	2026-01-13T14:42:37	Emrys	Analysis Started	Loaded 8000 packets for analysis	Yes	✓

Certification

Name	Signature	Date
Emrys		2026-01-13

--- End of Report ---

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