

Incident Report: Fake Google Authenticator Infection Analysis

Date: December 27, 2025 Analyst: Obioma Felicity Uzoh Case ID: MTA-2025-01-22 Severity: High

1. Executive Summary

On January 22, 2025, the Security Operations Center (SOC) received a report regarding a potential malware infection. A user reportedly attempted to download "Google Authenticator" but was redirected to a suspicious website.

This report details the forensic analysis of the captured network traffic (PCAP). The investigation confirmed that an internal host visited a fake software site, resulting in the download of a malicious payload and subsequent Command and Control (C2) communication. The infected host has been identified and the malicious domains have been documented for blocking.

2. Technical Analysis

2.1 Incident Scope & Victim Identification

The investigation began with the detection of anomalous network traffic on the subnet **10.1.17.0/24**. By correlating the alert time with DHCP and Kerberos authentication logs, we successfully isolated the specific endpoint responsible for the activity.

Analysis confirmed the source of the infection was a corporate workstation identified as **DESKTOP-L8C5GSJ**. Using Kerberos traffic (frame 15464), we attributed the session to the user account **shutchenson**. The device's physical address (**00:d0:b7:26:4a:74**) was documented to facilitate isolation at the switch level.

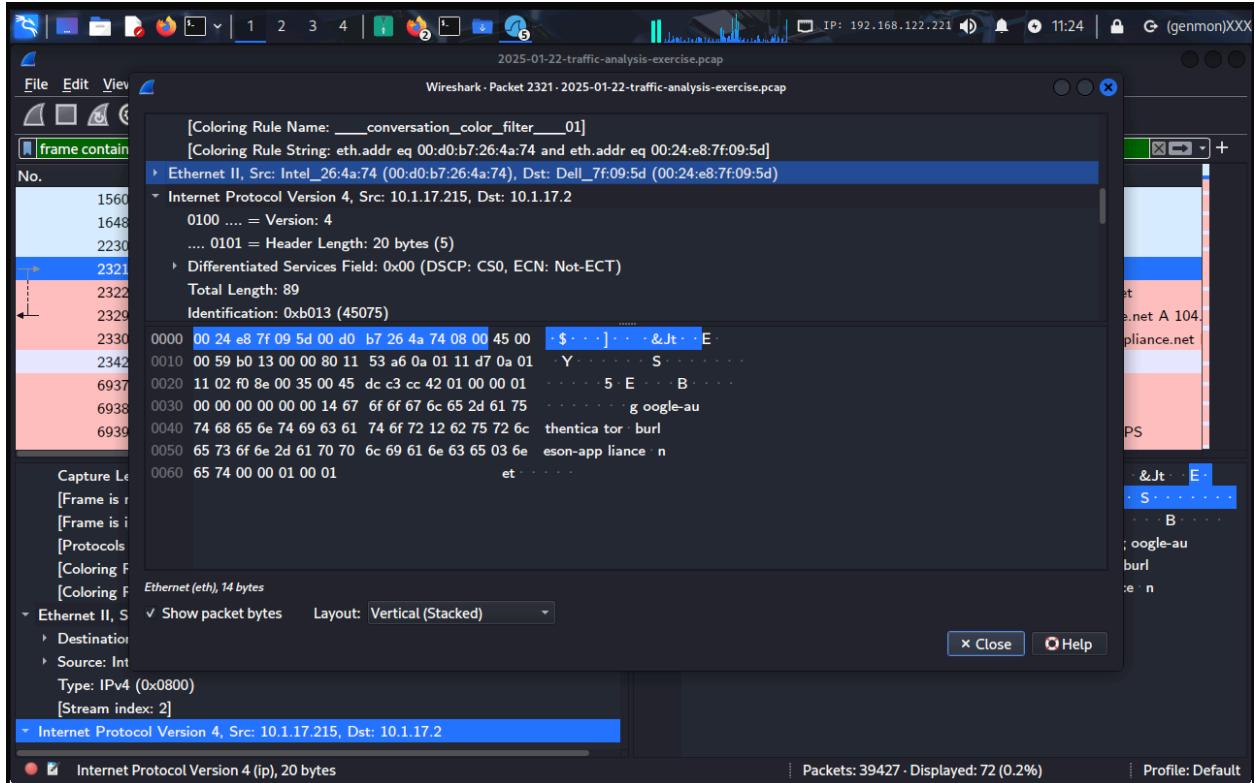


Figure 1: Network packet details identifying the victim IP and MAC.

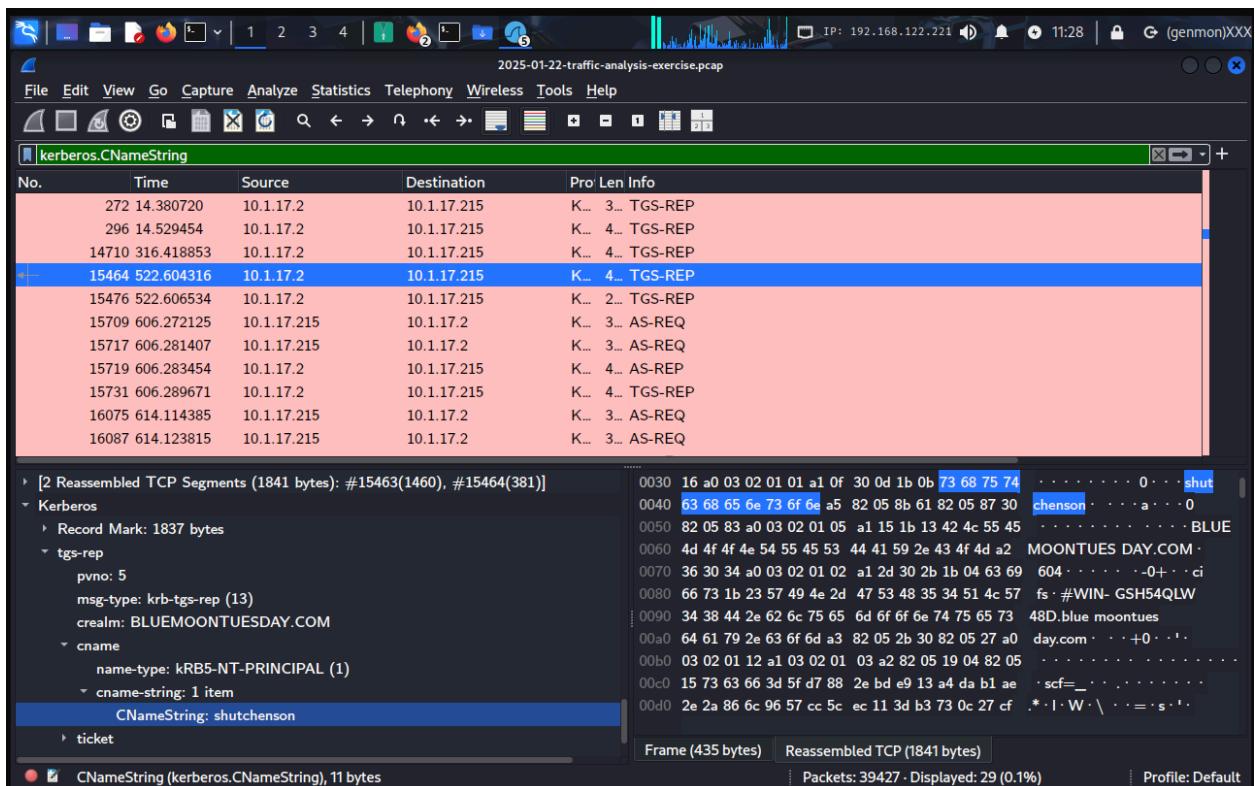


Figure 2: Kerberos Ticket Granting Service (TGS) request revealing the active user.

2.2 Infection Vector (The "Click")

We reconstructed the user's browsing history leading up to the infection. At approximately 19:45 UTC, the user performed a DNS lookup for a Google Authenticator download.

Instead of the legitimate Google domain, the user was redirected to a spoofed domain:

google-authenticator.burleson-appliance.net. This domain hosted a malicious web page that likely utilized social engineering to trick the user into downloading a fake installer. The traffic analysis shows an encrypted HTTPS session (Client Hello) established immediately after the DNS resolution, indicating the payload download was successful.

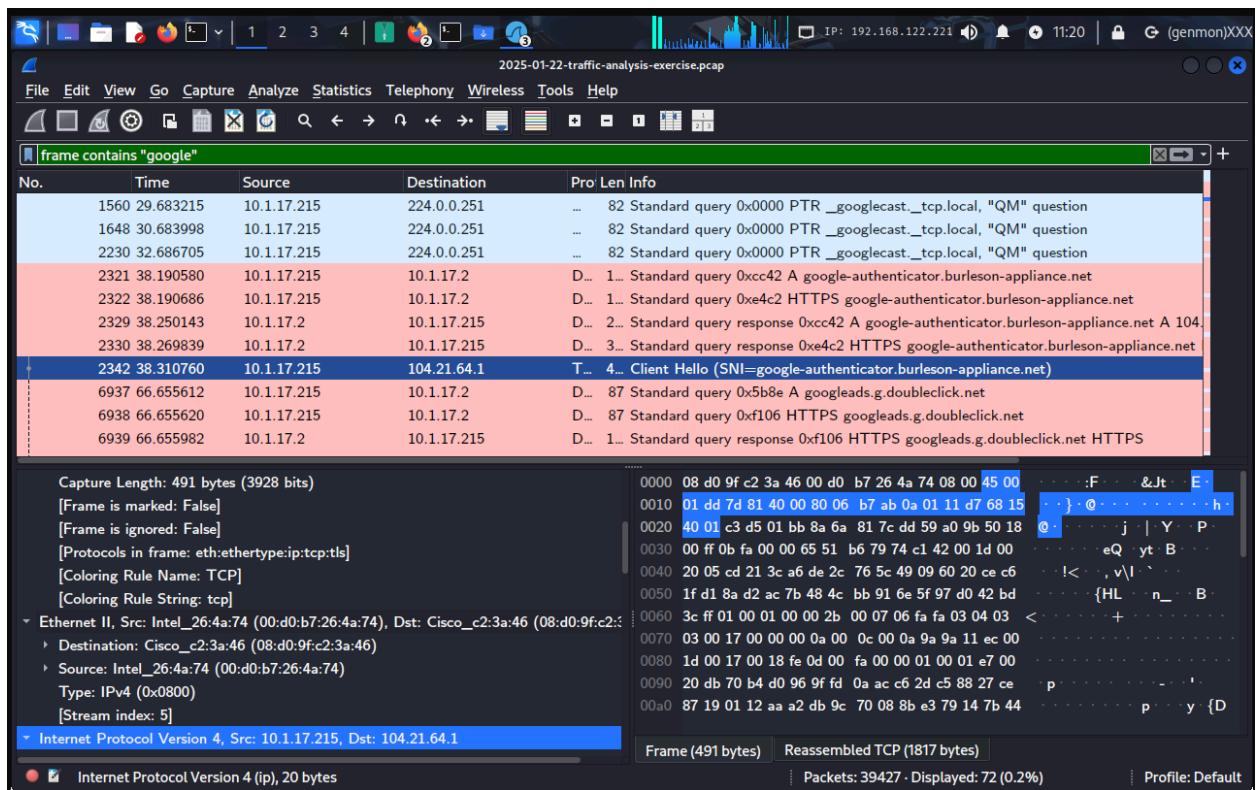


Figure 3: DNS query and subsequent connection to the malicious spoofed domain.

2.3 Post-Infection Activity (The "Call Home")

Approximately 10 minutes after the initial compromise, the infected host began exhibiting Command & Control (C2) behavior. The host

initiated multiple HTTP GET requests to the external IP
185.188.32.26.

Deep packet inspection of this traffic revealed clear Indicators of Compromise (IOCs). The malware utilized a known URL pattern (**/din.aspx** and **/dout.aspx**) associated with **TeamViewer (DynGate)**, a remote access tool often repurposed by attackers as a Remote Access Trojan (RAT). Frame 15987 captures the malware actively exfiltrating encoded data (likely system information) to the attacker's server.

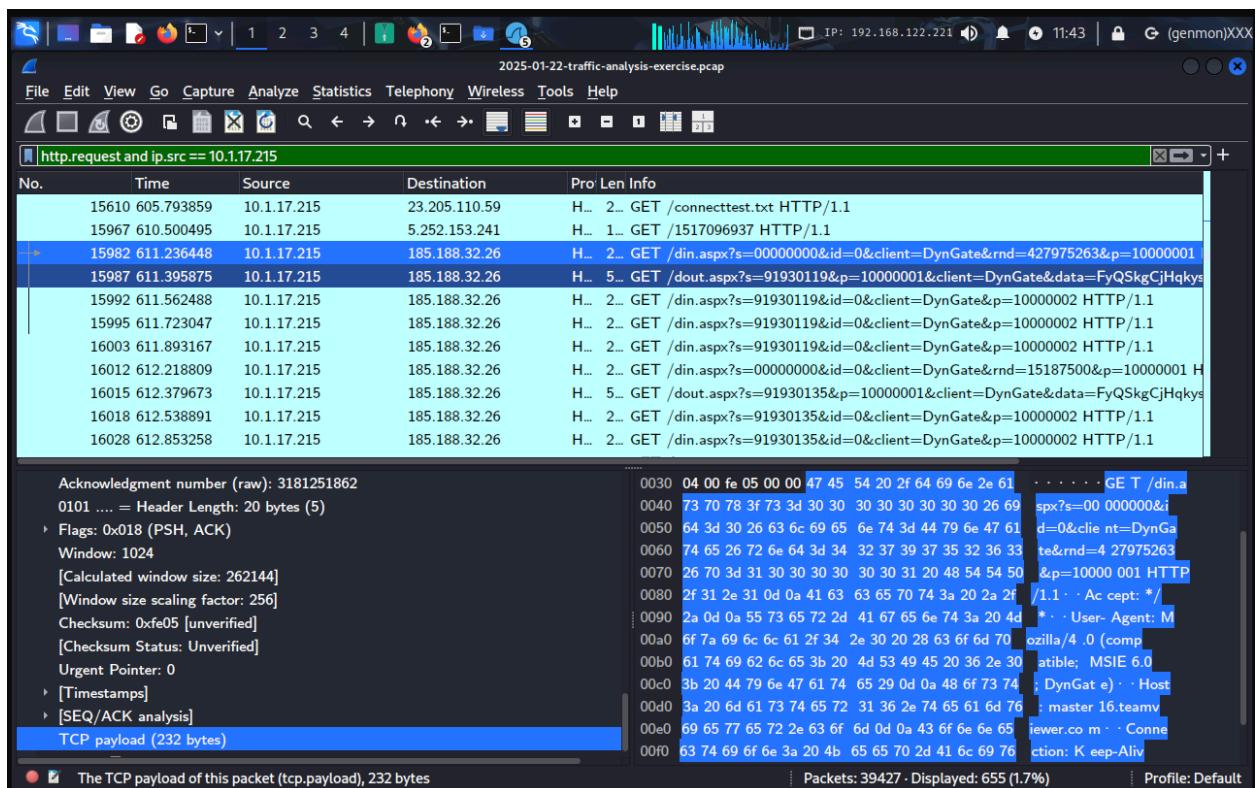


Figure 4: Malicious C2 beacon containing encoded data exfiltration

3. Conclusion & Recommendations

3.1 Incident Summary

The forensic analysis of the captured network traffic confirms that the host **10.1.17.215** was successfully compromised by a "Fake Software" social engineering attack. The attacker achieved code

execution and established a persistent command and control (C2) channel using a Remote Access Trojan (TeamViewer/DynGate).

3.2 Immediate Actions Required (Remediation)

Based on these findings, the following actions are recommended to contain and eradicate the threat:

1. **Isolate the Endpoint:** Immediately disconnect **10.1.17.215** (MAC: **00:d0:b7:26:4a:74**) from the corporate network to prevent lateral movement.
2. **Network Blocking:** Implement block rules at the firewall for the identified malicious C2 IP (**185.188.32.26**) and the spoofed domain (***.burleson-appliance.net**).
3. **Credential Reset:** Force a password reset for the user account **shutchenson**, as their credentials may have been scraped by the malware.
4. **Re-image the Host:** Due to the installation of a Remote Access Tool (RAT), the machine should be considered fully compromised. Do not attempt to "clean" it; wipe and re-image the device from a known good backup.