

[Op Report] CastleRAT Campaign leads to Hands-on-Keyboard ATO Operations — Deception.Pro Blog

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Executive Summary

This Deception.Pro operation captured a **multi-stage malware intrusion culminating in hands-on-keyboard (HoK) activity focused exclusively on account takeover (ATO)**: not ransomware staging or enterprise lateral movement.

The campaign initiated with a **Matanbuchus loader** via a malicious MSI, followed by **NetSupport RAT**, **Remcos RAT**, and ultimately **CastleRAT (aka NightShadeC2)**. Rather than enumerating Active Directory or moving laterally, the actor exfiltrated browser credentials and used CastleRAT to **proxy the replica's live browser session**, attempting logins against financial-institution websites directly from the compromised workstation.

This operation strongly reinforces an emerging pattern: **some access brokers and malware operators are monetizing endpoints immediately through ATO and fraud**, bypassing the traditional “steal creds → sell access → ransomware affiliate” pipeline entirely.

Environment Overview

- **Replica Role:** Senior Real Estate Portfolio Analyst
- **Industry:** Real Estate
- **Replica Organization:** Global commercial and residential real estate firm leveraging AI-driven portfolio analytics
- **Operation Duration:** ~7 days (Dec 4–Dec 11, 2025)

Timeline of Activity

2025-12-04 20:44:13

Initial infection chain triggered via malicious MSI (`CarrierRegistration.msi`). Embedded **Matanbuchus DLL** downloads additional payloads.

- Downloads observed:
 - `TBank231.zip`

- Petuhon.zip
- Host: 172.86.123[.]222:80

2025-12-04 20:44:45

NetSupport RAT deployed via DLL sideloading:

- Path:

C:\Users\USER_REDACTED\AppData\Roaming\Player\yuh.exe

- C2: 88.218.64[.]224:443

2025-12-04 → 2025-12-07

Credential staging and reconnaissance:

- Browser data archived
- C2 TLS traffic to diplomitta[.]com (95.164.53[.]39)

2025-12-08 21:46:12

Remcos RAT deployed via DLL sideloading:

- Path:

C:\Users\USER_REDACTED\AppData\Local\DataFileConverter\crash-handler-app.exe

- C2: 216.126.237[.]122:443
- Confirmed via JA3 TLS fingerprinting and malware config extraction

2025-12-08 → 2025-12-08 23:42:06

Hands-on-keyboard activity observed:

- Actor launches Microsoft Edge and Chrome browsers via **CastleRAT**
- Live browser sessions tunneled through CastleRAT
- Actor attempts logins to financial-institution websites using exfiltrated browser credentials
- No AD enumeration, no lateral movement

Indicators of Compromise (IOCs)

File Hashes & Malware

- **CarrierRegistration.msi**

SHA-256:

a65336f002b154eab29856ce11d363db89fe8c05bcccc5d0e1611bb355eb0b8d

- **Stage-Two Downloads**

- TBank231.zip
c1ec8c0e0b538ee0c884a077b4dc8cc7e2765cd30ef60350da5d8d52232f1cf7
- Petuhon.zip
f6954b64af18386c523988a23c512452fd289e3591218e7dbb76589b9b326d34

Malicious Paths

- C:\Users\USER_REDACTED\AppData\Roaming\5687ca6915a1f29a\Update.exe
- C:\Users\USER_REDACTED\AppData\Roaming\Player\yuh.exe
- C:\Users\USER_REDACTED\AppData\Local\DataFileConverter\crash-handler-app.exe

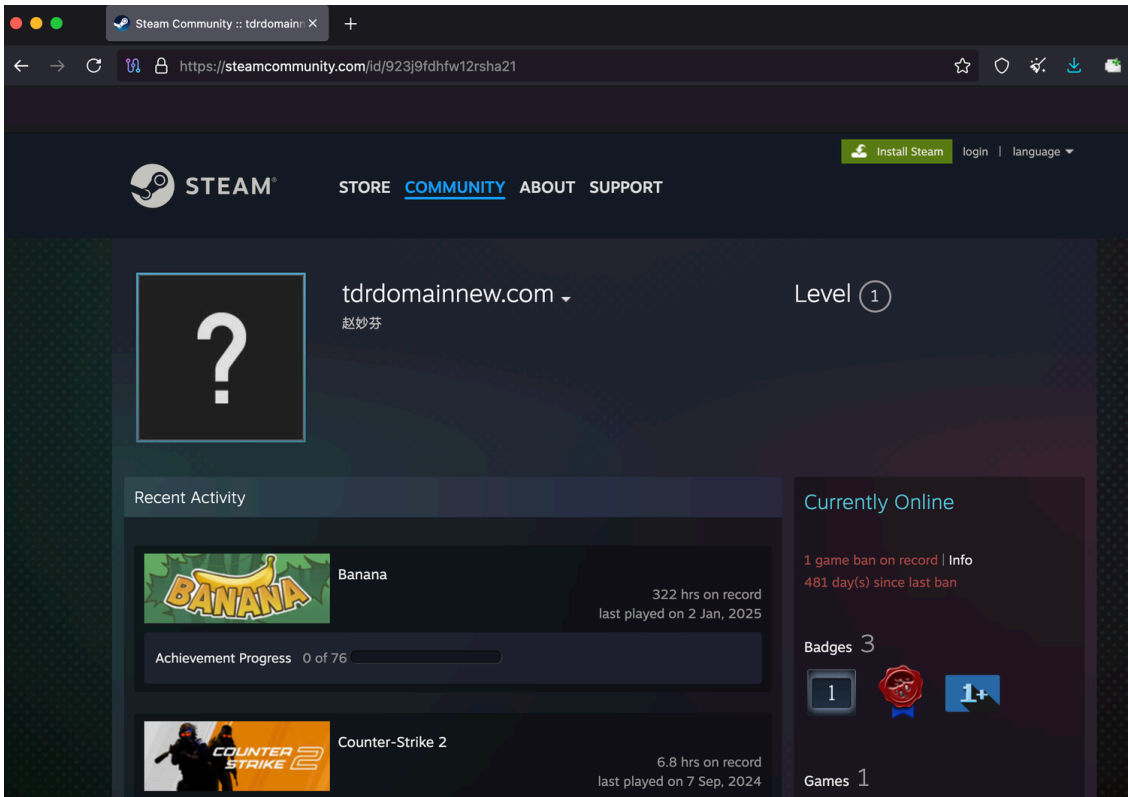
Network IOCs

C2 Infrastructure

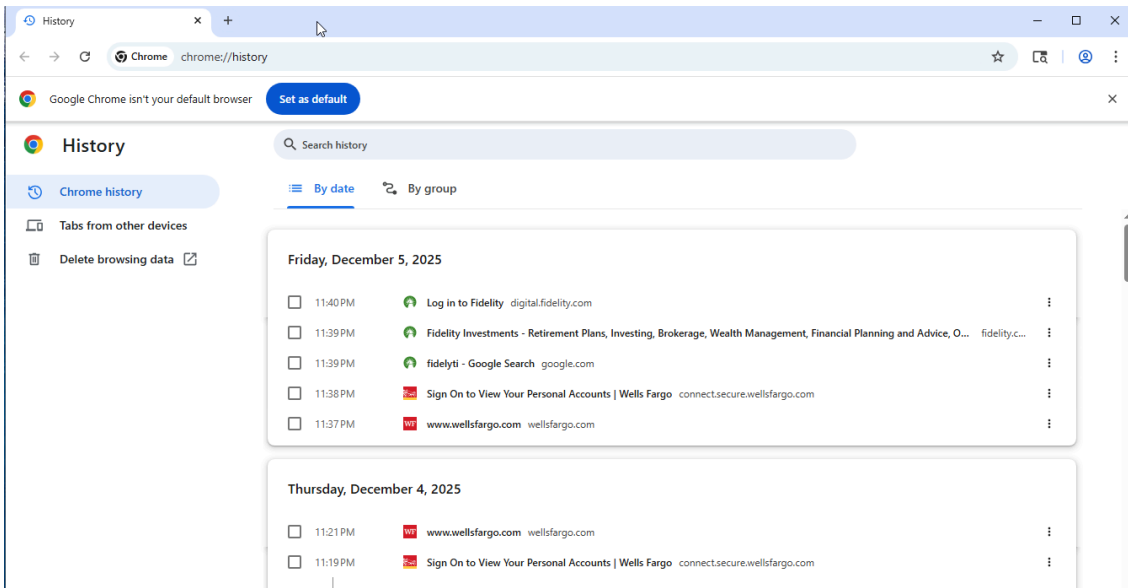
- 216.126.237[.]122:443 — Remcos RAT
- 88.218.64[.]224:443 — NetSupport RAT
- 95.164.53[.]39 (diplomitta[.]com)
- 172.86.123[.]222 — Matanbuchus payload host

CastleRAT / NightShadeC2 Dead-Drops

- Steam profile → tdrdomainnew[.]com (207.189.164[.]112)
- Steam profile → secondtdr[.]com (62.60.248[.]38)



Example Steam profile page leveraged by CastleRAT as a command-and-control dead-drop mechanism.



Chrome browser history from the replica workstation, capturing websites visited by the threat actor during live HoK activity.