



HiveForce Labs

# THREAT ADVISORY

**ATTACK REPORT**

## **Stealthy AsyncRAT Campaign Leverages TryCloudflare Tunnels for Evasion**

Date of Publication

February 6, 2025

Admiralty Code

A1

TA Number

TA2025032

# Summary

**Attack Discovered:** January 2025

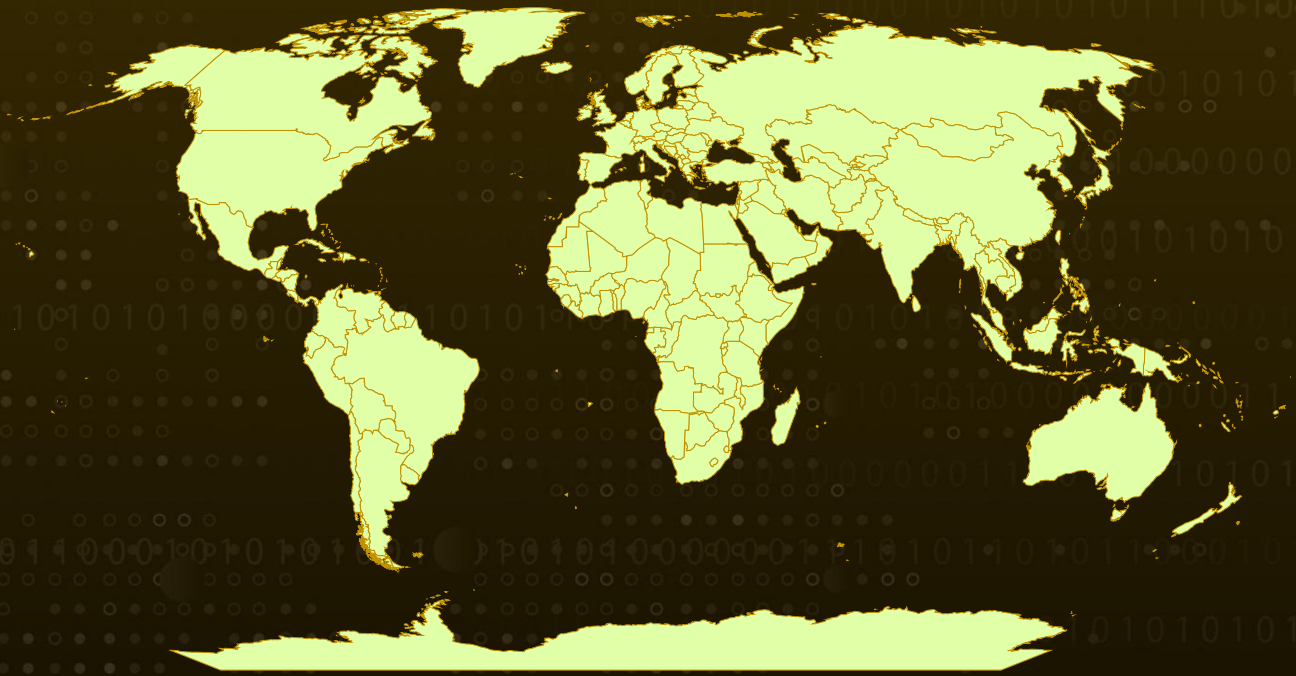
**Targeted Country:** Worldwide

**Affected Platform:** Windows

**Malware:** AsyncRAT

**Attack:** A stealthy malware campaign has been detected deploying AsyncRAT, a remote access trojan (RAT), using Python-based payloads and TryCloudflare tunnels. The attack begins with a phishing email containing a Dropbox link that, when clicked, downloads a ZIP archive, initiating a multi-stage infection process. This allows attackers to secretly gain control over infected systems, exfiltrate sensitive data, and execute commands while evading detection posing a serious cybersecurity threat.

## Attack Regions



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# Attack Details

## #1

A newly discovered [AsyncRAT](#) malware campaign is using TryCloudflare tunnels and Python-based payloads to infiltrate systems, similar to an attack observed in August. Cybercriminals are exploiting legitimate platforms like Dropbox to distribute a ZIP archive that initiates a multi-stage infection process, ultimately executing a malicious Python script.

## #2

The attack begins with a phishing email containing a 'Rechnung herunterladen' (Download Invoice) button, which hides a Dropbox link. Clicking it downloads a ZIP file that contains an internet shortcut (.URL) leading to a TryCloudflare URL. This URL then retrieves a .LNK file, which, when opened, triggers PowerShell to download a JavaScript (.JS) file. The JavaScript fetches a heavily obfuscated batch (.BAT) file, which downloads another ZIP archive containing the final payload—a malicious Python package which contains the AsyncRAT. To avoid suspicion, the attack also presents a fake invoice PDF to the victim.

## #3

Inside the ZIP file (ma.zip) are multiple folders and files, including .BIN, .PY, and .EXE formats, resembling a normal Python setup. However, only the load.py script and a few .BIN files are harmful. The Python script uses Windows API functions like VirtualAlloc() and CreateThread() to execute malicious code stealthily. The campaign employs the Early Bird APC Queue technique to inject malware into processes before their main threads start, helping it bypass security defenses.

## #4

The payloads include VenomRAT injected into notepad.exe, XWorm injected into another process, and AsyncRAT delivered into explorer.exe. These allow attackers to take full control of infected systems, steal data, and execute commands while remaining undetected.

## #5

This campaign demonstrates how cybercriminals misuse trusted services like Dropbox and TryCloudflare to make their attacks appear legitimate. The use of a fake invoice PDF highlights the growing trend of using low-cost infrastructure to spread infostealers and remote access trojans, making such cyber threats more widespread and accessible.

# Recommendations



**Enhanced Email Security:** Enhance email security by Implementing advanced spam filters, anti-phishing solutions, and email authentication protocols. Educate employees about identifying and reporting suspicious emails to prevent successful phishing attempts. Deploy advanced email filtering solutions to detect and block phishing emails containing malicious links or attachments.



**Restrict Script Execution:** Prevent untrusted scripts from running automatically by disabling the execution of .LNK, .JS, .BAT, and similar files. This helps block unauthorized payloads and reduces the risk of malware infections.



**Monitor and Block Suspicious Traffic:** Keep a close watch on network activity to detect and block unusual connections, especially those leveraging TryCloudflare tunnels or Dropbox URLs for malware delivery.



**Enhance Endpoint Protection:** Deploy next-generation antivirus (NGAV) and endpoint detection & response (EDR) solutions to identify and block malware. Leverage behavioral analysis and machine learning-based detection to spot suspicious activity.

## Potential **MITRE ATT&CK** TTPs

<b><u>TA0001</u></b> Initial Access	<b><u>TA0002</u></b> Execution	<b><u>TA0005</u></b> Defense Evasion	<b><u>TA0010</u></b> Exfiltration
<b><u>TA0011</u></b> Command and Control	<b><u>T1566</u></b> Phishing	<b><u>T1566.002</u></b> Spearphishing Link	<b><u>T1204</u></b> User Execution
<b><u>T1204.002</u></b> Malicious File	<b><u>T1059</u></b> Command and Scripting Interpreter	<b><u>T1059.001</u></b> PowerShell	<b><u>T1059.006</u></b> Python
<b><u>T1059.007</u></b> JavaScript	<b><u>T1027</u></b> Obfuscated Files or Information	<b><u>T1140</u></b> Deobfuscate/Decode Files or Information	<b><u>T1132</u></b> Data Encoding
<b><u>T1055</u></b> Process Injection	<b><u>T1571</u></b> Non-Standard Port	<b><u>T1036</u></b> Masquerading	

# ✂ Indicators of Compromise (IOCs)

TYPE	VALUE
URLs	hxxps[:]//inventory-card-thumbzilla-ip[.]trycloudflare[.]com/DE/, hxxps[:]//mercy-synopsis-notify-motels[.]trycloudflare[.]com/ma[.]zip, hxxp[:]//sufficiently-points-est-minimize[.]trycloudflare[.]com/ma[.]zip
IPv4	62[.]60[.]190[.]141, 62[.]60[.]190[.]196
SHA1	55724b766dd1fe8bf9dd4cb7094b83b88d57d945, 4483561a49791a7cd684258e9f1623fe7dfba772, 0aa1b8fba8d7bd19a0064edfdf86c027da253644, 659ecdeb19b8e49be61fe41e8796d1215272b16e, cd61de9e4003ba568ae76f064935addb106a6d6d, 0221ec304905a758d9b47d6a631622b7dcf3c1f5, 4747ee49bdf31351c025049d8c3b7fef831be77c, 8ef36a4865f4a73a4e8fe4b90e5eff4a7feb3647, ae1dece09c2b627d8d3fe1c1f758db9ca6d5820c, 8dc9071a46a019547c8355a155d9c3c3b154e7a2, 098c369c904e8c328df40062190aff009e02d369, ff6186eef1c17a2668c6013d38fecead4f507556

## ✂ References

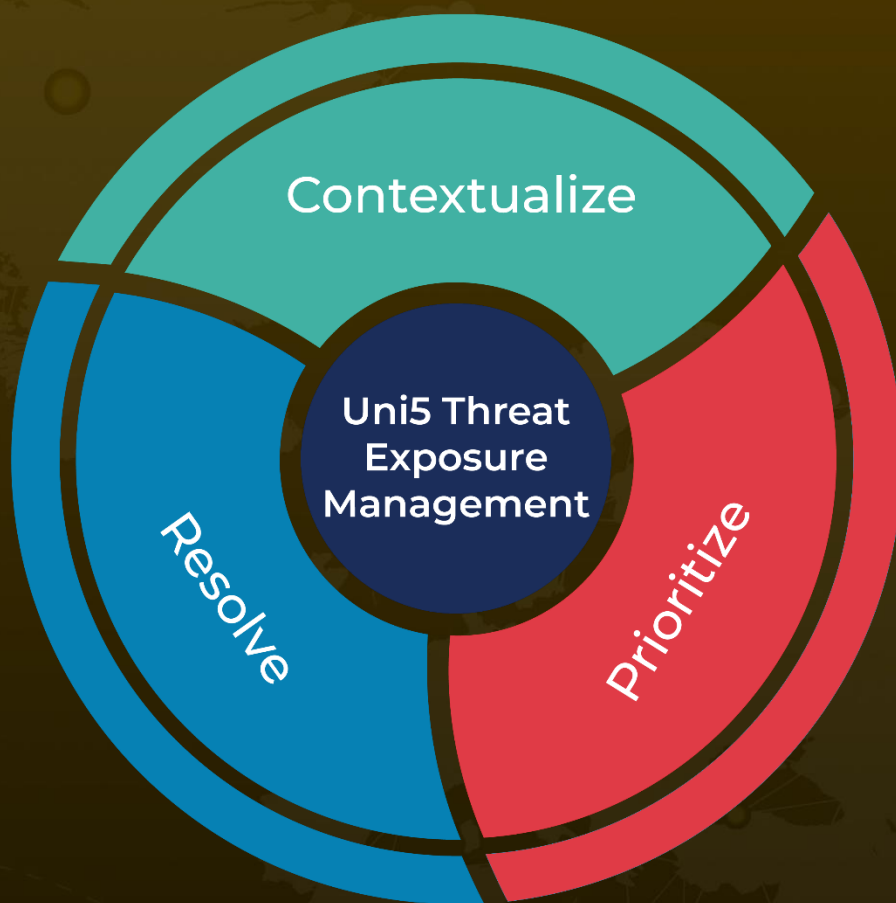
<https://www.forcepoint.com/blog/x-labs/asyncrat-reloaded-python-trycloudflare-malware>

<https://www.hivepro.com/threat-advisory/a-new-face-of-asyncrat-utilizes-wsf-scripts-to-spread/>

# What Next?

At **Hive Pro**, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

Book a free demo with **HivePro Uni5**: Threat Exposure Management Platform.



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