

HiveForce Labs

# THREAT ADVISORY

**ATTACK REPORT**

## **New ResolverRAT Malware Targets Global Pharma and Healthcare Sectors**

Date of Publication

April 15, 2025

Admiralty Code

A1

TA Number

TA2025114

# Summary

**First Seen:** March 10, 2025

**Targeted Countries:** Worldwide

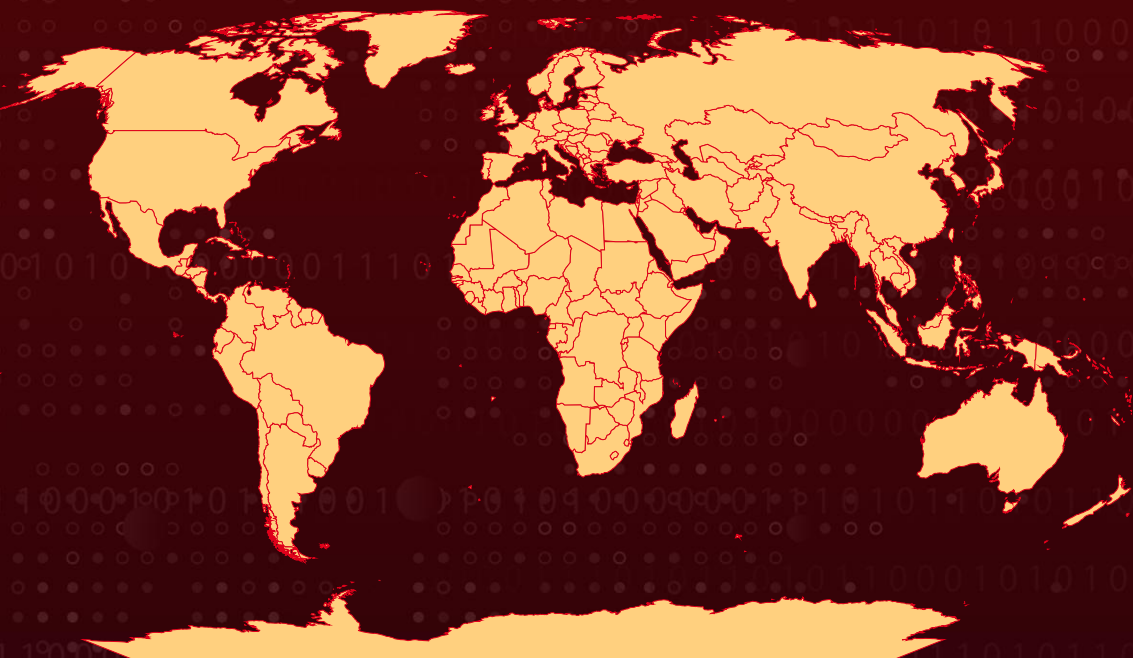
**Malware:** ResolverRAT

**Targeted Platforms:** Windows

**Targeted Industries:** Healthcare and Pharmaceutical

**Attack:** ResolverRAT is a sophisticated remote access trojan (RAT) identified in March 2025, employing advanced in-memory execution and runtime API resolution to evade detection. It targets corporate employees via phishing emails, leading to stealthy in-memory execution and secure command-and-control communications. The malware exfiltrates data in segments using a chunking mechanism, minimizing detection during large transfers.

## 🔪 Attack Regions



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# Attack Details

## #1

ResolverRAT is a highly sophisticated remote access Trojan (RAT) that has recently emerged as a serious threat, especially targeting global enterprises in sectors like healthcare and pharmaceuticals. It is designed to operate stealthily by executing entirely in memory, using strong encryption and compression to avoid detection. This malware employs advanced evasion techniques, including obfuscation and dynamic resource decryption, making it difficult for traditional security tools to identify and remove.

## #2

The infection typically begins through carefully crafted phishing campaigns that are localized to the target's language and culture. These emails often use urgent themes such as legal investigations or copyright issues to trick victims into opening malicious attachments or links. Once inside the system, ResolverRAT uses DLL side-loading, a method that leverages legitimate executables to load malicious code, helping it bypass many security defenses.

## #3

ResolverRAT communicates with its command-and-control (C2) servers using custom certificate-pinned channels, ensuring secure and resilient connections. It also employs IP rotation and fallback servers to maintain persistent communication even if some servers are disrupted. For persistence, the malware modifies the Windows Registry with obfuscated keys and places copies of itself in multiple system locations, allowing it to survive reboots and removal attempts.

## #4

The malware's capabilities include chunked data exfiltration, where large files are split into smaller pieces to blend with normal network traffic, and parallel command processing, which enables it to execute multiple commands simultaneously without crashing. Its global phishing campaigns, tailored to various languages such as Hindi, Italian, and Turkish, indicate a well-coordinated operation with a broad reach, although the specific threat actor remains unknown.

# Recommendations



**Use Advanced Endpoint Security:** Deploy endpoint detection and response (EDR) solutions that monitor for unusual behaviors such as in-memory execution, DLL side-loading, and encrypted payloads. Keep antivirus and anti-malware software updated to detect sophisticated and obfuscated threats.



**Enhance Network Monitoring:** Monitor network traffic for anomalies, including encrypted communications to unfamiliar IP addresses and segmented data transfers that may indicate data theft. Implement firewall and intrusion detection/prevention systems to block or alert on connections to known malicious command-and-control servers.



**Strengthen Email Security and Filtering:** Implement advanced email filtering solutions to block malicious attachments, links, and phishing attempts. Technologies such as SPF, DKIM, and DMARC can authenticate senders and reduce the risk of email-based attacks.



**Strengthen Phishing Awareness:** Provide ongoing cybersecurity training focused on identifying phishing emails, especially those crafted in local languages and using culturally relevant themes. Conduct regular phishing simulations to help employees recognize and respond appropriately to suspicious messages.



## Potential MITRE ATT&CK TTPs

<b><u>TA0008</u></b> Lateral Movement	<b><u>TA0005</u></b> Defense Evasion	<b><u>TA0010</u></b> Exfiltration	<b><u>TA0002</u></b> Execution
<b><u>TA0003</u></b> Persistence	<b><u>TA0001</u></b> Initial Access	<b><u>TA0009</u></b> Collection	<b><u>TA0011</u></b> Command and Control
<b><u>T1566</u></b> Phishing	<b><u>T1204</u></b> User Execution	<b><u>T1204.001</u></b> Malicious Link	<b><u>T1574.002</u></b> DLL Side-Loading

<b><u>T1574</u></b> Hijack Execution Flow	<b><u>T1027</u></b> Obfuscated Files or Information	<b><u>T1140</u></b> Deobfuscate/Decode Files or Information	<b><u>T1620</u></b> Reflective Code Loading
<b><u>T1566.002</u></b> Spearphishing Link	<b><u>T1059.001</u></b> PowerShell	<b><u>T1059</u></b> Command and Scripting Interpreter	<b><u>T1218</u></b> System Binary Proxy Execution
<b><u>T1055</u></b> Process Injection	<b><u>T1547.001</u></b> Registry Run Keys / Startup Folder	<b><u>T1547</u></b> Boot or Logon Autostart Execution	<b><u>T1041</u></b> Exfiltration Over C2 Channel
<b><u>T1008</u></b> Fallback Channels	<b><u>T1030</u></b> Data Transfer Size Limits	<b><u>T1027.007</u></b> Dynamic API Resolution	

## ✂ Indicators of Compromise (IOCs)

TYPE	VALUE
<b>SHA256</b>	ec189b7ce68cb308139f6a5cf93fd2dc91ccf4432dc09ccaecb9de403a000c73, 6c054f9013c71ccb7522c1350995066ef5729371641a639a7e38d09d66320bf4, c3028a3c0c9b037b252c046b1b170116e0edecf8554931445c27f0ddb98785c1, 19a4339a4396e17fece5fd5b19639aa773c3bb3d8e2f58ee3b8305b95d969215, 05313e81e28f4c4a13e5f443cd2641181d5de95cdc7e450e097ee23c09758a15, 80625a787c04188be1992cfa457b11a166e19ff27e5ab499b58e8a7b7d44f2b9, e78505de8436a1d9978fd03a4e374518be6f3f6f7f4bf18ae59e3f23301ce927
<b>IPv4</b>	38[.]54[.]6[.]120, 192[.]30[.]241[.]106

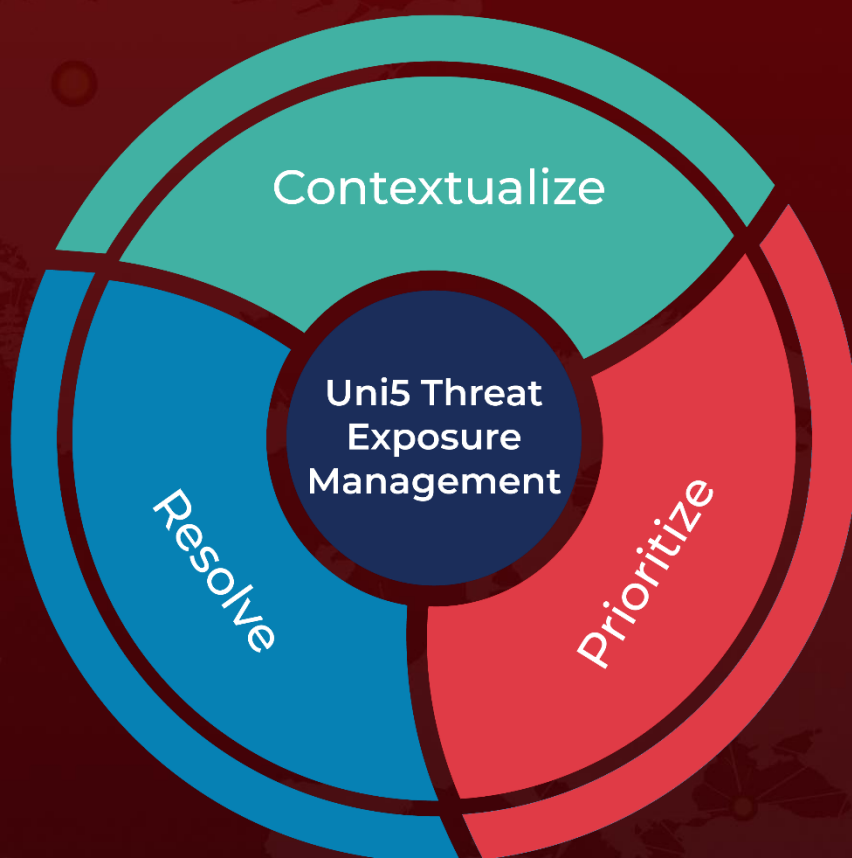
## ✂ References

<https://www.morphisec.com/blog/new-malware-variant-identified-resolvertatters-enters-the-maze/>

# 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.

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