

HiveForce Labs

THREAT ADVISORY

 **ATTACK REPORT**

Ransomware Meets RAT NonEuclid's Destructive Capabilities Revealed

Date of Publication

January 3, 2025

Admiralty Code

A1

TA Number

TA2025002

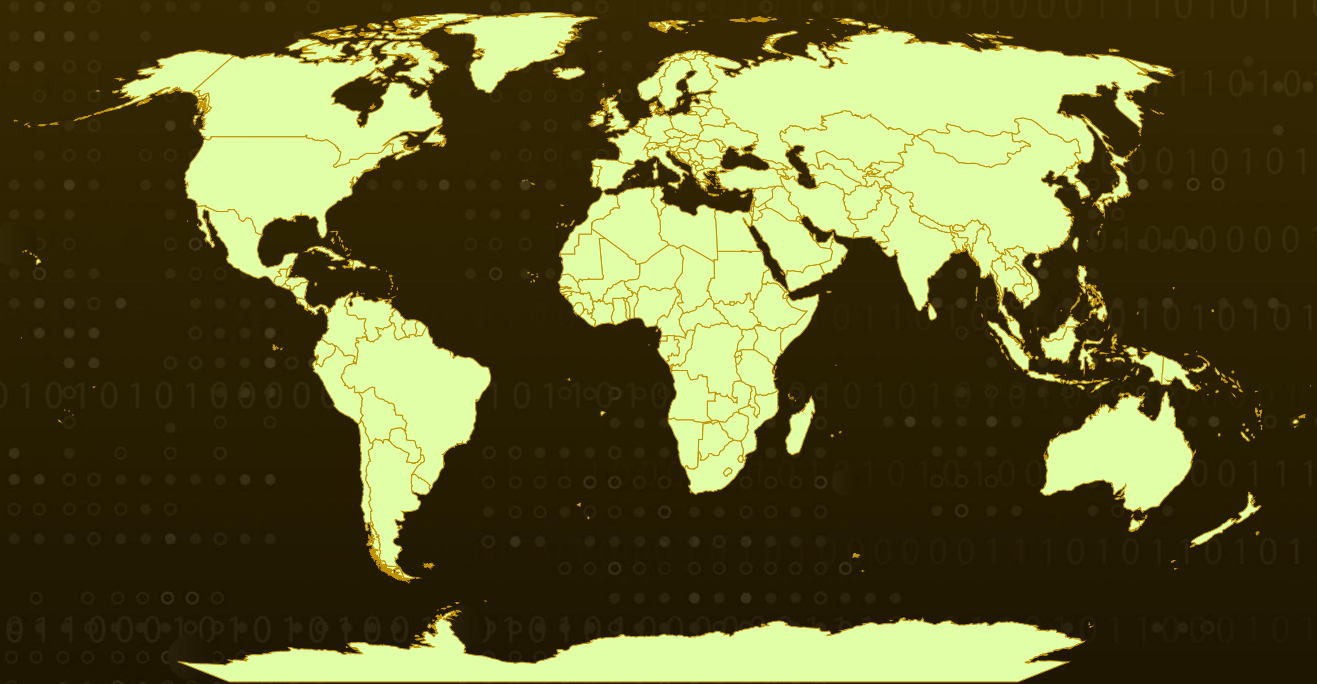
Summary

Malware: NonEuclid

Targeted Region: Worldwide

Attack: The NonEuclid Remote Access Trojan (RAT) is a powerful C# malware designed to grant unauthorized control over victim computers while evading detection. Promoted on underground forums and platforms like Discord, this stealthy RAT employs advanced tactics, including antivirus bypass, privilege escalation, AES encryption, and anti-virtual machine checks, to ensure persistence and resilience.

Attack Regions



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Attack Details

#1

The NonEuclid Remote Access Trojan (RAT) is a sophisticated piece of malware engineered to grant unauthorized remote access and control over a victim's computer. Written in C# for the .NET Framework 4.8, it incorporates advanced evasion techniques and destructive functionalities, making it a serious threat in the realm of cybersecurity.

#2

Designed to bypass safeguards such as antivirus programs and user account controls, it ensures persistence while reducing the likelihood of detection. This malware has garnered significant attention among cybercriminals, largely due to its promotion on underground forums and platforms like Discord and YouTube.

#3

Its wide appeal stems from an impressive array of features, including antivirus evasion, privilege escalation, ransomware encryption, and anti-detection mechanisms. It also uses dynamic DLL loading, anti-virtual machine (anti-VM) checks, and AES encryption to enhance its stealth and durability.

#4

The NonEuclid RAT initiates its attack by setting delays, verifying administrative privileges, and executing anti-detection checks. Additionally, it can terminate system monitoring applications like Task Manager and Process Explorer to hinder user intervention.

#5

One of its standout evasion strategies is its ability to recognize virtualized or sandboxed environments. If such conditions are detected, the RAT shuts itself down to evade analysis. Beyond these evasive techniques, the NonEuclid RAT exhibits destructive capabilities by encrypting critical files.

#6

Using AES encryption, it targets file types such as .csv, .txt, and .php, appending the .NonEuclid extension and demanding a ransom for decryption. The NonEuclid RAT highlights the growing sophistication of modern malware, combining stealthy behavior with destructive potential.

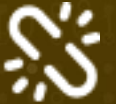
Recommendations



Deploy Endpoint Detection and Response (EDR) Solutions: Implement EDR tools to detect suspicious activities, such as unauthorized registry changes, process injections, and the creation of persistent tasks. Ensure rapid response and containment capabilities to neutralize threats as they occur.



Implement Strict Privilege Management: Enforce least-privilege access policies to limit user permissions and minimize attack surfaces. Monitor and log all administrative actions to detect and prevent privilege escalation attempts by malware.



Zero Trust Architecture: Implement a Zero Trust security model, where all users and devices are continuously authenticated and verified, regardless of their location within the network.

Potential MITRE ATT&CK TTPs

<u>TA0002</u> Execution	<u>TA0003</u> Persistence	<u>TA0004</u> Privilege Escalation	<u>TA0005</u> Defense Evasion
<u>TA0007</u> Discovery	<u>TA0011</u> Command and Control	<u>TA0010</u> Exfiltration	<u>TA0040</u> Impact
<u>T1059</u> Command and Scripting Interpreter	<u>T1106</u> Native API	<u>T1547</u> Boot or Logon Autostart Execution	<u>T1547.001</u> Registry Run Keys / Startup Folder
<u>T1505</u> Server Software Component	<u>T1548.002</u> Bypass User Account Control	<u>T1548.001</u> Setuid and Setgid	<u>T1027</u> Obfuscated Files or Information
<u>T1027.004</u> Compile After Delivery	<u>T1070</u> Indicator Removal	<u>T1070.006</u> Timestomp	<u>T1112</u> Modify Registry
<u>T1140</u> Deobfuscate/Decode Files or Information	<u>T1222</u> File and Directory Permissions Modification	<u>T1497</u> Virtualization/Sandbox Evasion	<u>T1497.001</u> System Checks
<u>T1562</u> Impair Defenses	<u>T1562.001</u> Disable or Modify Tools	<u>T1620</u> Reflective Code Loading	<u>T1012</u> Query Registry
<u>T1033</u> System Owner/User Discovery	<u>T1057</u> Process Discovery	<u>T1082</u> System Information Discovery	<u>T1083</u> File and Directory Discovery

T1087 Account Discovery	T1518 Software Discovery	T1518.001 Security Software Discovery	T1614 System Location Discovery
T1071 Application Layer Protocol	T1071.001 Web Protocols	T1041 Exfiltration Over C2 Channel	T1486 Data Encrypted for Impact

✂ Indicators of Compromise (IOCs)

TYPE	VALUE
SHA256	d32585b207fd3e2ce87dc2ea33890a445d68a4001ea923daa750d32b5de52bf0, e1f19a2bc3ce5153e8dfe2f630cc43d6695fac73f5aaa59cd96dc214ca81c2b0

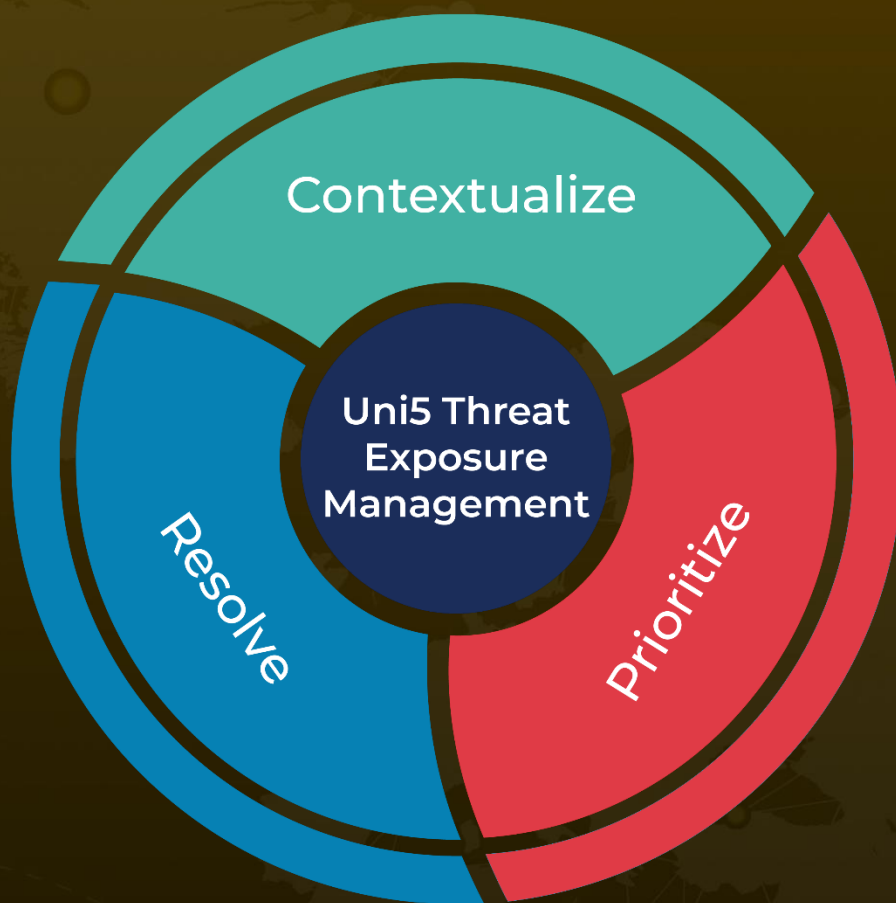
🔗 References

<https://www.cyfirma.com/research/noneclid-rat/>

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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