

HiveForce Labs

THREAT ADVISORY

 **ATTACK REPORT**

STRRAT a Java-Powered Versatile Remote Access Trojan

Date of Publication

August 7, 2023

Admiralty Code

A1

TA Number

TA2023323

Summary

Attack Began: March 2023

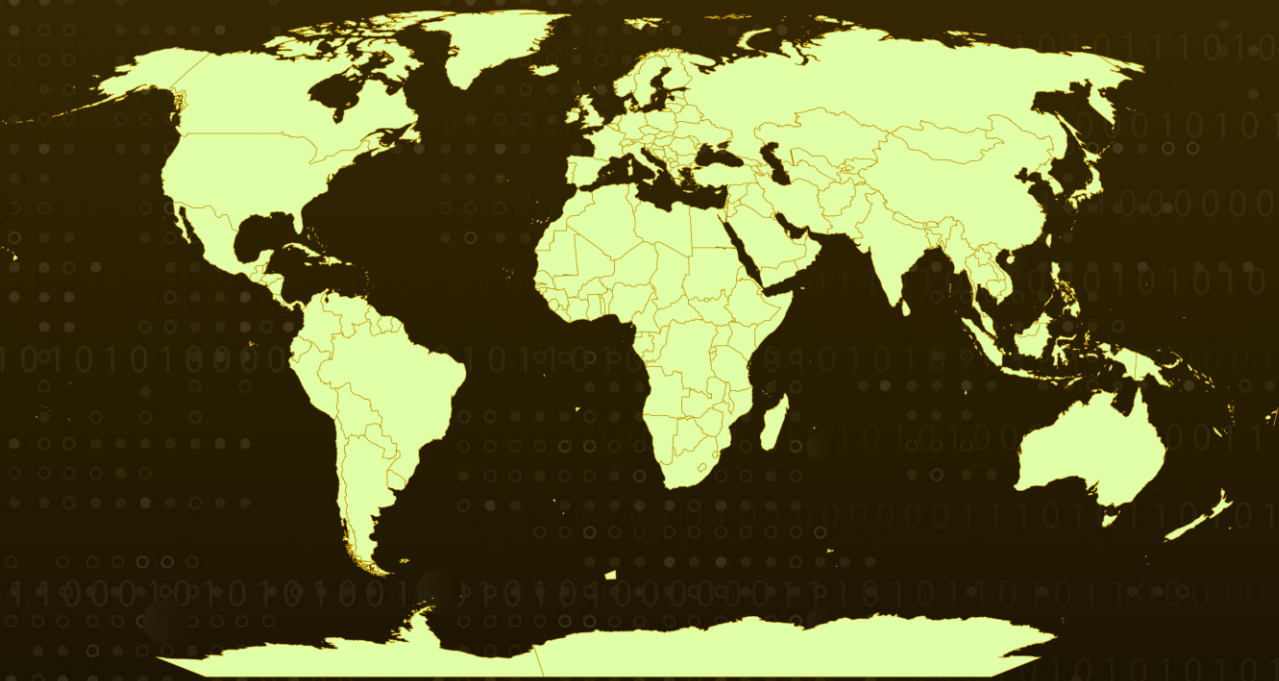
Malware: STRRAT

Affected Platform: Chrome, Firefox, Internet Explorer, Outlook, Thunderbird, and Foxmail

Attack Region: Worldwide

Attack: STRRAT, a Java-based RAT, excels in utilizing a wide array of capabilities. Its latest version, STRRAT 1.6, is notable for employing diverse infection paths and conducting startup host queries to understand system architecture and anti-virus defenses. Its primary objective is data extraction from compromised hosts. This modern STRRAT version employs a sophisticated dual-string obfuscation technique.

Attack Regions



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Attack Details

#1

STRRAT, a sophisticated Remote Access Trojan with a history tracing back to at least mid-2020, exhibits a unique trait by being Java-based. Its delivery method involves the exploitation of spam emails, meticulously crafted to appear as originating from technology companies. Within these emails, an attached PDF file, cleverly masked as an invoice, plays a pivotal role.

#2

Upon opening the PDF attachment, a conspicuous download icon beckons from within the document. Interacting with this icon initiates the download of a zip file that houses a JavaScript file encapsulating the encrypted payload of STRRAT. An evolved iteration, STRRAT version 1.6, has been actively disseminated since March 2023, utilizing diverse infection pathways.

#3

Upon execution, STRRAT conducts host queries to ascertain system architecture and anti-virus safeguards. It further investigates active processes, local storage, and network capabilities. Presently, STRRAT employs a pair of string obfuscation techniques, specifically identified as "Allatori" and "Zelix KlassMaster (ZKM)."

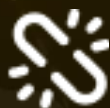
#4

This sophisticated STRRAT malware maintains its inclination for targeting prominent web browsers, including Chrome, Firefox, and Internet Explorer, alongside widely embraced email clients such as Outlook, Thunderbird, and Foxmail. Its primary aim remains the extraction of sensitive information from the compromised host system.

Recommendations



Implement robust email filtering to counteract spam, phishing, and malicious attachments, and exercise caution with unverified links and email attachments by validating their authenticity before opening.



Utilize URL filtering to prevent access to malicious domains and reduce the risk of inadvertent malware downloads. Additionally, vigilantly monitor network beacons to halt data exfiltration driven by malware.



Implement robust endpoint security solutions that encompass antivirus and anti-malware software. Keep these security tools up-to-date to ensure comprehensive defense against emerging threats.

Potential MITRE ATT&CK TTPs

<u>TA0001</u> Initial Access	<u>TA0002</u> Execution	<u>TA0003</u> Persistence	<u>TA0005</u> Defense Evasion
<u>TA0006</u> Credential Access	<u>TA0007</u> Discovery	<u>TA0010</u> Exfiltration	<u>TA0040</u> Impact
<u>T1566</u> Phishing	<u>T1566.001</u> Spearphishing Attachment	<u>T1204</u> User Execution	<u>T1204.002</u> Malicious File
<u>T1059</u> Command and Scripting Interpreter	<u>T1059.001</u> PowerShell	<u>T1059.003</u> Windows Command Shell	<u>T1053</u> Scheduled Task/Job
<u>T1053.005</u> Scheduled Task	<u>T1547</u> Boot or Logon Autostart Execution	<u>T1547.001</u> Registry Run Keys / Startup Folder	<u>T1140</u> Deobfuscate/Decode Files or Information
<u>T1027</u> Obfuscated Files or Information	<u>T1027.009</u> Embedded Payloads	<u>T1555</u> Credentials from Password Stores	<u>T1555.003</u> Credentials from Web Browsers
<u>T1056</u> Input Capture	<u>T1056.001</u> Keylogging	<u>T1518</u> Software Discovery	<u>T1041</u> Exfiltration Over C2 Channel
<u>T1486</u> Data Encrypted for Impact			

Indicators of Compromise (IOCs)

TYPE	VALUE
SHA256	3d3cb10a1a9059900ddeb58209edcfa52461806558ebbee422c417c6535aa3a5, 8250d324bbc14e3b3a7abc032b6b55aa0699ff9bc784d6c67fdd381edc3b9e56,

TYPE	VALUE
SHA256	c9380f51f0dd7167f833669eda3063a1a8f34cc3e2d536f29153952772d c8b20, 9714dce49616e48fc4851d05453056939ab08bf140fe9a786616fa914d ebb4f4, c9380f51f0dd7167f833669eda3063a1a8f34cc3e2d536f29153952772d c8b20, 6ec3e682fbbd0c23fb4e3a2c2b28f03431b90a88651d227ae3f33b6fadf 507cf, 058c764614c8b0b457852a71ab93b559f81abb9e13b7fc2d6c6a496288 1bf062, 5536bd8910de7571b6e14b2dd8af6da658f0f702321966d5bef85e9d41 f6de21, 5536bd8910de7571b6e14b2dd8af6da658f0f702321966d5bef85e9d41 f6de21, cbe7d5663fd5359a72f88e44d083703d9625235929c31e0f5b16a0b42c b44d35, 8cae71910574fa96fdf20ddab8897e90d155e50036ddb2f3d033a7b13a 45b90f, c9380f51f0dd7167f833669eda3063a1a8f34cc3e2d536f29153952772d c8b20, b74a0e8adc5f0681405c94a684d6b887fdc20cd6d198d069f0981d6ba7 d658c6, 31c2e51efcbff0aa489aa6af1a48cf78f6a9febfb449a19d029f8cc8ebb44 95f, ab6f8c51d1f15a18cd23e1ad5a34c82c83746befb7d11cce2860c971be3 5adaa, d634982709d3ebf1641b1160ed6452fa9e3bf2cc8d28f397e56ca9687b 28ec84, a0670c21968e2b1256d72799c22a512e503597ab375d20c49d9ec4342 8c4c3b2, 3a74d083e1c4e30f1eedcb90c842bf1a7e65a979edab40e37885607bd5 66bee8, 569f5f6de156bec90f9b0b0e4e707a702c0fea26ab6a0711e32f4a41399 5ae7c, 176e45016749ec233b8fe1ce32ce2cd47dd5bc8da3663f1c6cf054f6ad5 8a187, 3094952f4e4c826cdfbc7b146212eec6094f5104b4ba0d70d3b2920a26 3add27, 4bf781354d02ca0d67a3a180fd6f0d183c6fba763caa660f986752be8b4 bb586, 6f7180a451691ee975f516cfc6fb3f0c983bc80aebd1d662a899ff4344e4 077e

TYPE	VALUE
SHA1	4651326299d02ac07c0b51c0abb7067f24293a65, 8fa3c76f427f73cbfa864c380769825018cf72f5, f726bf1b6bc380c02d76d273765c888f6b41f197, 433b6ac1169a9bd7e0cfe7029954070cc2b4ebdf,
MD5	9af7e66c85e07a1e182fcb024e7048a2, c7130bf8bca520792f6eff1592a112b2, 61522d1e3290906215d580b8b59e6341, 9bc8ac6d3a38357488de33952e929143
Domain	talibangeneral[.]dynamic-dns[.]net
URLs	hxxp://jbfrost[.]live/strigoi/server/?hwid=1&lid=m&ht=5, hxxps://tatchumbemERCHANTS[.]co.ke/Invo-0728403[.]zip.
File Name	Invo-0728403.zip

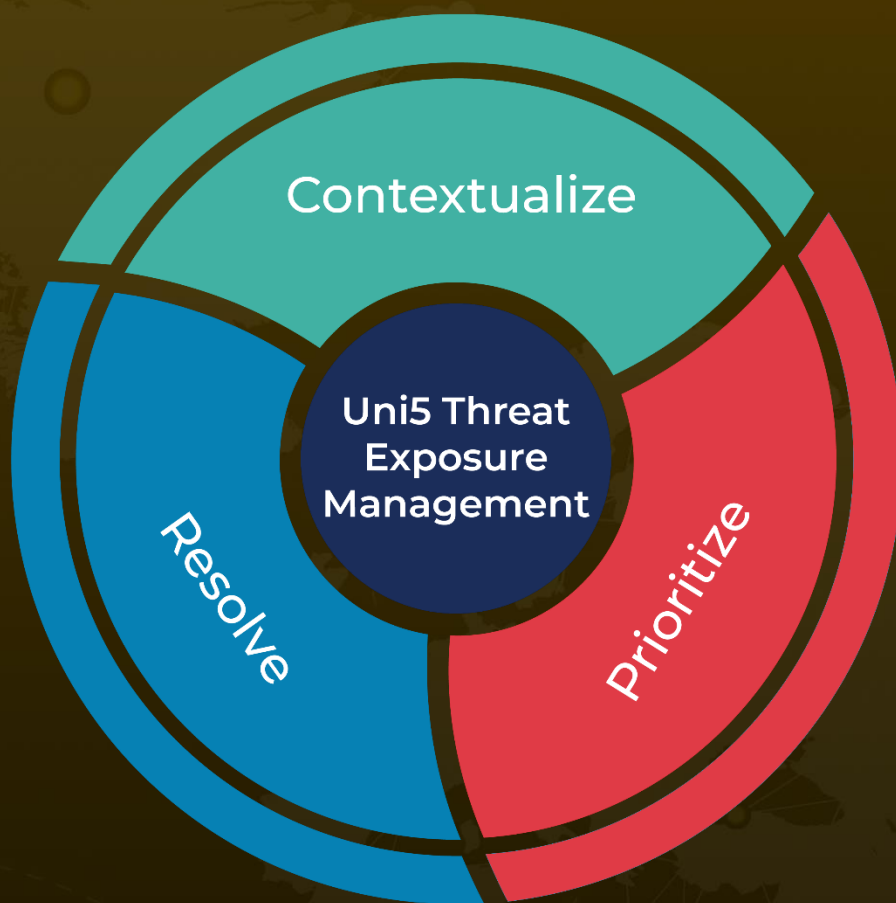
References

<https://cyble.com/blog/strrats-latest-version-incorporates-dual-obfuscation-layers/>

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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