Oct 30 2023

NETMANAGEIT

Intelligence Report

Mystic Stealer Revisited

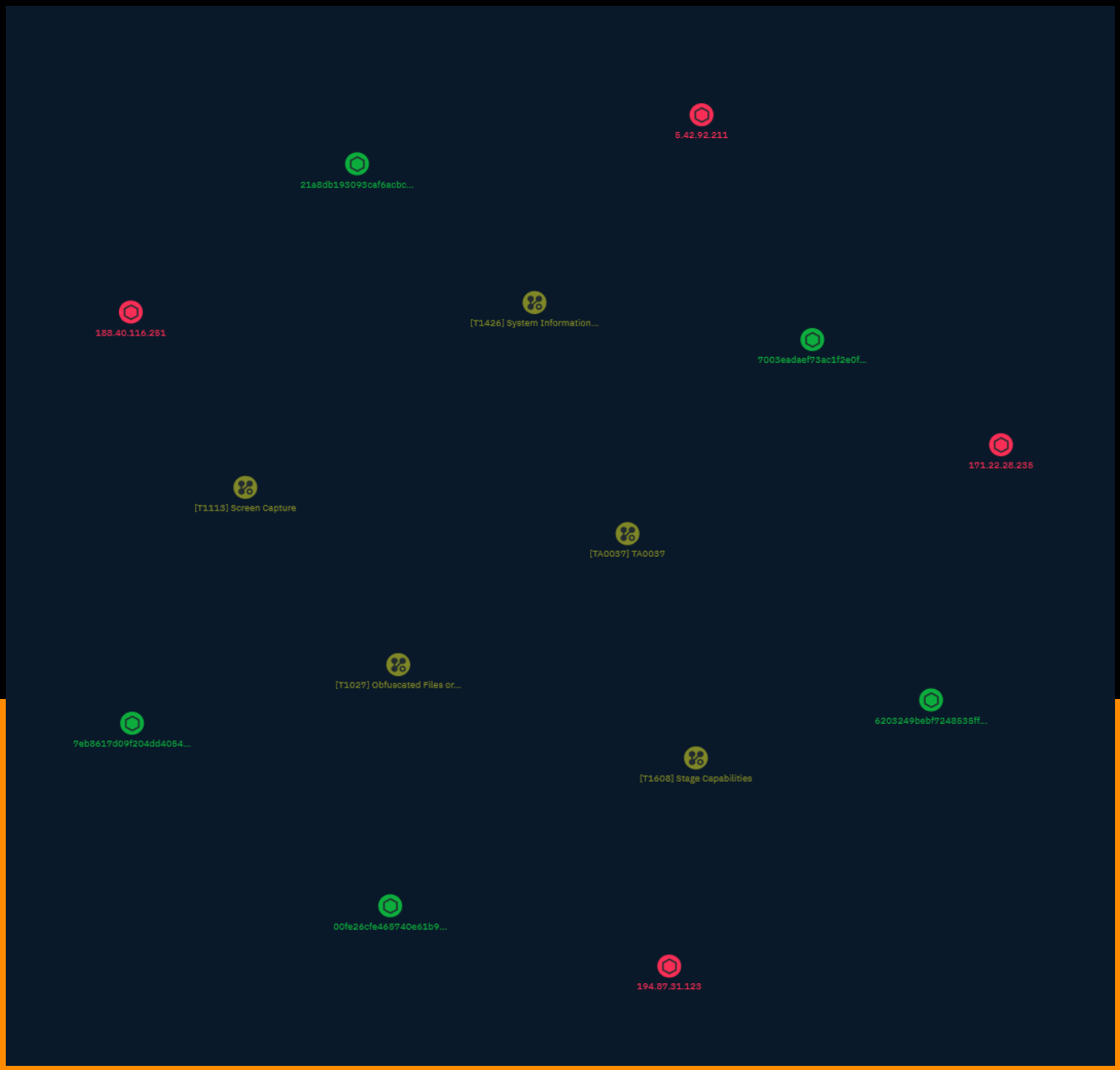

Table of contents

Overview

Entities

Observables

External References

Overview

Description

Mystic Stealer is a relatively new downloader and information stealer that emerged in early 2023. The malware harvests data from a large number of web browsers and cryptocurrency wallet applications. Mystic can also be used to steal Steam game credentials and arbitrary files from an infected system. Mystic stands out for the level of obfuscation and improvements with each new version of the malware.

Confidence

This value represents the confidence in the correctness of the data contained within this report.

15 / 100

Content

N/A

Attack-Pattern

Name
TA0037
ID
TA0037
Name
Obfuscated Files or Information
ID
T1027
Description
Adversaries may attempt to make an executable or file difficult to discover or analyze by encrypting, encoding, or otherwise obfuscating its contents on the system or in transit. This is common behavior that can be used across different platforms and the network to evade defenses. Payloads may be compressed, archived, or encrypted in order to avoid detection. These payloads may be used during Initial Access or later to mitigate detection. Sometimes a user's action may be required to open and [Deobfuscate/Decode Files or Information](https://attack.mitre.org/techniques/T1140) for [User Execution](https://attack.mitre.org/techniques/T1204). The user may also be required to input a password to open a password protected compressed/encrypted file that was provided by the adversary. (Citation: Volexity PowerDuke November 2016) Adversaries may also use compressed or archived scripts, such as JavaScript. Portions of files can also be encoded to hide the

plain-text strings that would otherwise help defenders with discovery. (Citation: Linux/Cdorked.A We Live Security Analysis) Payloads may also be split into separate, seemingly benign files that only reveal malicious functionality when reassembled. (Citation: Carbon Black Obfuscation Sept 2016) Adversaries may also abuse [Command Obfuscation](https://attack.mitre.org/techniques/T1027/010) to obscure commands executed from payloads or directly via [Command and Scripting Interpreter](https://attack.mitre.org/techniques/T1059). Environment variables, aliases, characters, and other platform/language specific semantics can be used to evade signature based detections and application control mechanisms. (Citation: FireEye Obfuscation June 2017) (Citation: FireEye Revoke-Obfuscation July 2017)(Citation: PaloAlto EncodedCommand March 2017)

Name

System Information Discovery

ID

T1426

Description

Adversaries may attempt to get detailed information about a device's operating system and hardware, including versions, patches, and architecture. Adversaries may use the information from [System Information Discovery](https://attack.mitre.org/techniques/T1426) during automated discovery to shape follow-on behaviors, including whether or not to fully infects the target and/or attempts specific actions. On Android, much of this information is programmatically accessible to applications through the `android.os.Build` class. (Citation: Android-Build) iOS is much more restrictive with what information is visible to applications. Typically, applications will only be able to query the device model and which version of iOS it is running.

Name

Stage Capabilities

ID

T1608

Description

Adversaries may upload, install, or otherwise set up capabilities that can be used during targeting. To support their operations, an adversary may need to take capabilities they developed ([Develop Capabilities](https://attack.mitre.org/techniques/T1587)) or obtained ([Obtain Capabilities](https://attack.mitre.org/techniques/T1588)) and stage them on infrastructure under their control. These capabilities may be staged on infrastructure that was previously purchased/rented by the adversary ([Acquire Infrastructure](https://attack.mitre.org/techniques/T1583)) or was otherwise compromised by them ([Compromise Infrastructure](https://attack.mitre.org/techniques/T1584)). Capabilities may also be staged on web services, such as GitHub or Pastebin, or on Platform-as-a-Service (PaaS) offerings that enable users to easily provision applications.(Citation: Volexity Ocean Lotus November 2020)(Citation: Dragos Heroku Watering Hole)(Citation: Malwarebytes Heroku Skimmers)(Citation: Netskope GCP Redirection)(Citation: Netskope Cloud Phishing) Staging of capabilities can aid the adversary in a number of initial access and post-compromise behaviors, including (but not limited to): * Staging web resources necessary to conduct [Drive-by Compromise](https://attack.mitre.org/techniques/T1189) when a user browses to a site.(Citation: FireEye CFR Watering Hole 2012)(Citation: Gallagher 2015)(Citation: ATT ScanBox) * Staging web resources for a link target to be used with spearphishing.(Citation: Malwarebytes Silent Librarian October 2020)(Citation: Proofpoint TA407 September 2019) * Uploading malware or tools to a location accessible to a victim network to enable [Ingress Tool Transfer](https://attack.mitre.org/techniques/T1105).(Citation: Volexity Ocean Lotus November 2020) * Installing a previously acquired SSL/TLS certificate to use to encrypt command and control traffic (ex: [Asymmetric Cryptography](https://attack.mitre.org/techniques/T1573/002) with [Web Protocols](https://attack.mitre.org/techniques/T1071/001)).(Citation: DigiCert Install SSL Cert)

Name

Screen Capture

ID

T1113

Description

Adversaries may attempt to take screen captures of the desktop to gather information over the course of an operation. Screen capturing functionality may be included as a feature of a remote access tool used in post-compromise operations. Taking a screenshot

is also typically possible through native utilities or API calls, such as `CopyFromScreen`, `xwd`, or `screencapture`.(Citation: CopyFromScreen .NET)(Citation: Antiquated Mac Malware)

StixFile

Value
7003eadaef73ac1f2e0f0a86a3d1f5792a5dde3a45ba71e095861b55059b3780
00fe26cfe465740e61b99f105bcf2516ff49e117f23f4b508d5256c57fa3fc66
21a8db193093caf6acbcd14ba64c98a1c9f16998cade8f60fa0fb4dc63e33bd2
6203249bebf7248535ff5ef70a7c5a57688b399d91ac63c9d73441af6e65f184
7eb8617d09f204dd40541a000f9881019ff103ff330cb0e7aebb8c3a160cfd26

IPv4-Addr

Value
5.42.92.211
194.87.31.123
188.40.116.251
171.22.28.235

External References

- https://otx.alienvault.com/pulse/653ff877b98d45e40b6420da
- https://www.zscaler.com/blogs/security-research/mystic-stealer-revisited