

Raccoon Stealer: “Trash panda” abuses Telegram

By Threat Research TeamThreat Research Team

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We recently came across a stealer, called `Raccoon Stealer`, a name given to it by its author. Raccoon Stealer uses the `Telegram` infrastructure to store and update actual `C&C` addresses.

Raccoon Stealer is a password stealer capable of stealing not just passwords, but various types of data, including:

- Cookies, saved logins and forms data from browsers
- Login credentials from email clients and messengers
- Files from crypto wallets
- Data from browser plugins and extension
- Arbitrary files based on commands from C&C

In addition, it's able to download and execute arbitrary files by command from its C&C. In combination with active development and promotion on underground forums, Raccoon Stealer is prevalent and dangerous.

The oldest samples of Raccoon Stealer we've seen have timestamps from the `end of April 2019`. Its authors have stated the same month as the start of selling the malware on underground forums. Since then, it has been updated many times. According to its authors, they fixed bugs, added features, and more.

Distribution

We've seen Raccoon distributed via downloaders: `Buer Loader` and `GCleaner`. According to some samples, we believe it is also being distributed in the form of `fake game cheats`, `patches for cracked software` (including hacks and mods for `Fortnite`, `Valorant`, and `NBA2K22`), or other software. Taking into account that Raccoon Stealer is for sale, it's distribution techniques are limited only by the imagination of the end buyers. Some samples are spread unpacked, while some are protected using `Themida` or malware packers. Worth noting is that some samples were packed more than [five times in a row](#) with the same packer!

Technical details

Raccoon Stealer is written in `C/C++` and built using `Visual Studio`. Samples have a size of about `580-600 kB`. The code quality is below average, some strings are encrypted, some are not.

Once executed, Raccoon Stealer starts checking for the default user locale set on the infected device and won't work if it's one of the following:

- Russian
- Ukrainian
- Belarusian
- Kazakh
- Kyrgyz
- Armenian
- Tajik
- Uzbek

C&C communications

The most interesting thing about this stealer is its communication with C&Cs. There are four values crucial for its C&C communication, which are hardcoded in every Raccoon Stealer sample:

- `MAIN_KEY`. This value has been changed four times during the year.
- URLs of Telegram gates with channel name. Gates are used not to implement a complicated Telegram protocol and not to store any credentials inside samples
- `BotID` – hexadecimal string, sent to the C&C every time
- `TELEGRAM_KEY` – a key to decrypt the C&C address obtained from Telegram Gate

Let's look at an example to see how it works:

```
447c03cc63a420c07875132d35ef027adec98e7bd446cf4f7c9d45b6af40ea2b unpacked to:  
f1cfccce14739887cc7c082d44316e955841e4559ba62415e1d2c9ed57d0c6232 :
```

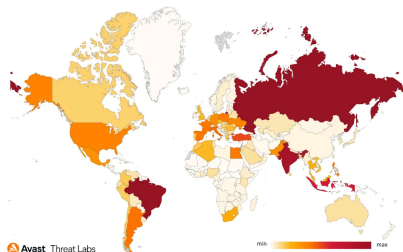
1. First of all, `MAIN_KEY` is decrypted. See the decryption code in the image below:

- C:\Users\13xuiop1337\
- C:\Users\David\

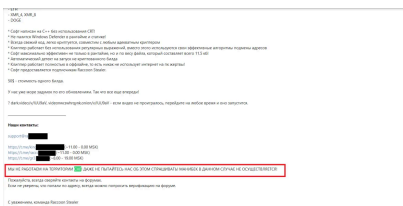
Prevalence

Raccoon Stealer is quite prevalent: from March 3, 2021 - February 17, 2022 our systems detected more than 25,000 Raccoon-related samples. We identified more than 1,300 distinct configs during that period.

Here is a map, showing the number of systems Avast protected from Raccoon Stealer from March 3, 2021 - February 17, 2022 . In this time frame, Avast protected nearly 600,000 Raccoon Stealer attacks.



The country where we have blocked the most attempts is Russia, which is interesting because the actors behind the malware don't want to infect computers in Russia or Central Asia. We believe the attacks spray and pray, distributing the malware around the world. It's not until it makes it onto a system that it begins checking for the default locale. If it is one of the language listed above, it won't run. This explains why we detected so many attack attempts in Russia, we block the malware before it can run, ie. before it can even get to the stage where it checks for the device's locale. If an unprotected device that comes across the malware with its locale set to English or any other language that is not on the exception list but is in Russia, it would still become infected.



Screenshot with claims about not working with CIS

Telegram Channels

From the more than 1,300 distinct configs we extracted, 429 of them are unique Telegram channels. Some of them were used only in a single config, others were used dozens of times. The most used channels were:

- jdiamond13 – 122 times
- jjbadb0y – 44 times
- nixsmasterbaks2 – 31 times
- hellobyegain – 25 times
- h_smurf1kman_1 – 24 times

Thus, five of the most used channels were found in about 19% of configs.

Malware distributed by Raccoon

As was previously mentioned, Raccoon Stealer is able to download and execute arbitrary files from a command from C&C. We managed to collect some of these files. We collected 185 files , with a total size 265 Mb , and some of the groups are:

- Downloaders – used to download and execute other files
- Clipboard crypto stealers – change crypto wallet addresses in the clipboard – very popular (more than 10%)
- WhiteBlackCrypt Ransomware

Servers used to download this software

We extracted unique links to other malware from Raccoon configs received from C&Cs, it was 196 unique URLs . Some analysis results:

- 43% of URLs have HTTP scheme, 57% – HTTPS .
- 83 domain names were used.

- About 20% of malware were placed on Discord CDN
- About 10% were served from aun3xk17k[.]space

Conclusion

We will continue to monitor Raccoon Stealer's activity, keeping an eye on new C&Cs, Telegram channels, and downloaded samples. We predict it may be used wider by other cybercrime groups. We assume the group behind Raccoon Stealer will further develop new features, including new software to steal data from, for example, as well as bypass protection this software has in place.

IoC

447c03cc63a420c07875132d35ef027adec98e7bd446cf4f7c9d45b6af40ea2b
f1cfce14739887cc7c082d44316e955841e4559ba62415e1d2c9ed57d0c6232



A group of elite researchers who like to stay under the radar.

Source: <https://decoded.avast.io/vladimirmartyanov/raccoon-stealer-trash-panda-abuses-telegram>