

# A Sticky Situation Part 2

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August 18, 2022



In May 2022, we reported on the Caramel skimmer-as-a-service and how the proliferation of online credit card skimmers support fraud. Evidence suggests CaramelCorp, the group behind the Caramel skimmer, does not limit their cybercrime activities to skimming. Instead, this group appears to pivot frequently in search of profitable new lines of business using different aliases with a documented history spanning several years. Such behavior is not unusual; rather, this appears to be a trend where cybercriminals are quicker to adapt—and expand to offer new services—in response to market forces.

Several factors contribute to this trend, but three are especially pertinent to this investigation. First, cybercrime threat actors can (temporarily) avoid scrutiny from law enforcement by appearing to be a small operation—a target simply not worth the effort to address, given the significant increase in cybercrime and limited resources available to deter such behavior. A cybercrime group that convincingly “appears small” can realize rich dividends. Second, savvy cybercrime threat actors closely monitor the underground economy and evaluate new opportunities in response to market forces. Third, increased specialization and reliance on third party services within the underground economy makes expanding into new types of cybercrime economical with minimal learning curve. The potential harm this trend can cause for business and consumer alike should not be discounted, nor should adversary creativity or their willingness to pivot in search of profits.

Despite its upside, such a trend is not without additional risk for cybercriminals. In exchange for additional capabilities and revenue, cybercrime actors often increase exposure. One helpful way to understand this relationship is through the lens of network defense and to consider exposure in terms of attack surface: increased complexity and reliance on third party services creates risk. If realized, that risk can become exploitable. Such is the case with CaramelCorp, and these footholds help bring into focus a cluster of activity beyond selling access to an online credit card skimmer. Instead, a portrait of a more ambitious group with forays into stealer malware, dubious video game “hacks,” and cryptocurrency scams begins to appear.

## **Domain Registrant “Ozil Verfig” and a Trail of Badness**

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The seeming simplicity of whois data belies immense complexity. Relationships between registrant data and how domains relate can offer helpful insights when used judiciously. Commonality – whether infrastructure or artifact – does not necessarily mean association or shared endeavor. Not all roads lead to Rome and not all threads of an investigation lead to the same suspect or conclusion. The art of threat intelligence is the ability to see *multum in parvo* (“much in little”) without losing sight of the big picture. To do so is to be comfortable with ambiguity, something cybercrime investigations are often fraught with. The domains in CaramelCorp’s orbit and how they overlap with the domain registrant “Ozil Verfig” typify this “big picture” approach.

In this case, several roads lead to CaramelCorp. Whois records for caramelcorp[.]cc offer several useful initial footholds, the most helpful being:

Registrant Name: Ozil Verfig

Registrant Organization: Ozil Verfig

Registrant Street: Krasnaya Ploshad

Registrant City: Moscow

Registrant Postal Code: 101000

Registrant Country: RU

Registrant Phone: +495.1234321

Registrant Fax: +495.1234321 Registrant Email: [email protected][.]com

Notably, the caramelcorp[.]cc domain appears to be controlled by a single registrant for its entire history. The registrant organization name “Ozil Verfig ” and email address “[email protected][.]com” seem distinctive. Further, the OSINT footprint associated with this registrant is narrow but deep.

A review of caramelcorp[.]xyz, one of CaramelCorp’s earlier domains, also has “Ozil Verfig” listed as the domain registrant’s organization. The name “Ozil Verfig” is unusual. Thus, the relatively small footprint of domains with registrants and registrant organizations using the name suggest relatedness. Further, many of these domains appear to fall into three categories: (1) impersonation of financial institutions, (2) cryptocurrency scams, and (3) malware domains, whether for propagation or administration (with possible ties to a notable Redline stealer campaign). Given the cybercrime nexus, distinctive name, targeting behavior, and frequently used domain registrars, it appears more likely than not that a single threat actor or group is behind these domain registrations. Another factor to consider is whether any similar domain naming conventions exist.

Registrant “Ozil Verfig” domains follow several consistent naming conventions for several likely domain purpose groups. Some of these domains include:

Domain	Registrant	Registrar	Date
Dashed domains:			
accounts-cooperative[.]com 2021	Ozil Verfig	NiceNIC	Nov.
accounts-service[.]com 2021	Ozil Verfig	NiceNIC	Nov.
cdn-googlestatic[.]com 2022	Ozil Verfig	NiceNIC	Feb.
docs-file[.]com 2022	Ozil Verfig	NiceNIC	Mar.
downloads-drive[.]com 2022	Ozil Verfig	NiceNIC	Mar.
downloads-safe[.]com 2022	Ozil Verfig	NiceNIC	Mar.
drive-file[.]com 2022	Ozil Verfig	Cloudflare	Mar.
file-office[.]com 2022	Ozil Verfig	NiceNIC	Mar.
redhat-dev[.]com 2022	Ozil Verfig	NiceNIC	June
spotify-account[.]xyz 2022	Ozil Verfig	DNSPod	April
static-microsoft[.]com 2022	Ozil Verfig	NiceNIC	June
storage-drive[.]com 2022	Ozil Verfig	NiceNIC	Mar.
Gaming "hacks" and scams:			
fortnightcheat[.]com 2022	Ozil Verfig	NiceNIC	Mar.
robloxforu[.]com 2022	Ozil Verfig	NiceNIC	Mar.
skinchangenow[.]com 2022	Ozil Verfig	NiceNIC	Mar.
valorannow[.]com 2022	Ozil Verfig	NiceNIC	Mar.
Typosquatting and lookalike domains:			
bllockchain[.]online 2020	Ozil Verfig	DNSPod	May
certcodeplus[.]top 2020	Ozil Verfig	NiceNIC	Nov.
certicode[.]xyz 2020	Ozil Verfig	NiceNIC	Oct.
certicodeplus[.]club 2020	Ozil Verfig	DNSPod	Oct.
certicodeplus[.]group 2020	Ozil Verfig	139.com	Oct.

certicodeplus[.]online 2020	Ozil Verfig	DNSPod	Oct.
certicodeplus[.]top 2020	Ozil Verfig	NiceNIC	Sept.
certicodplus[.]site 2020	Ozil Verfig	NiceNIC	Oct.
certlcodeplus[.]top 2020	Ozil Verfig	NiceNIC	Oct.
firstechfed[.]site 2020	Ozil Verfig	NiceNIC	Oct.
flrstechfed[.]com 2020	Ozil Verfig	NiceNIC	Oct.
flrstechfed[.]group 2020	Ozil Verfig	139.com	Oct.
flrsttechfed[.]group 2020	Ozil Verfig	139.com	Oct.
lloyids[.]com 2020	Ozil Verfig	NiceNIC	Oct.

Panels:

caramelcorp[.]cc 2020	Ozil Verfig	NiceNIC	Dec.
caramelcorp[.]xyz 2020	Ozil Verfig	NiceNIC	Dec.
bezpecnost[.]tech 2022	Ozil Verfig	NiceNIC	April
bezpieczenstwo[.]app 2021	Ozil Verfig	NiceNIC	Dec.
bezpieczenstwo[.]tech 2022	Ozil Verfig	DNSPod	April
gotxest[.]top 2020	Ozil Verfig	NiceNIC	Oct.
panel-smm[.]top 2022	Ozil Verfig	NiceNIC	Jan.

Likely malware:

ahf4ycvea439tt9rq[.]site 2022	Ozil Verfig	NiceNIC	March
awqwywewfs56843[.]top 2021	Ozil Verfig	DNSPod	Jan.
batroslunk[.]top 2020	Ozil Verfig	DNSPod	Dec.
blctrsb[.]site 2020	Ozil Verfig	NiceNIC	July
fitollday[.]site 2020	Ozil Verfig	NiceNIC	April
gaweawgeaweg232[.]top 2021	Ozil Verfig	NiceNIC	Jan.
ghslitvompj[.]top 2020	Ozil Verfig	NiceNIC	Nov.



regisbrow[.]site 2020	Ozil Verfig	NiceNIC	July
windows-upgraded[.]com 2022	Ozil Verfig	NiceNIC	Jan.
wornegmot[.]top 2020	Ozil Verfig	NiceNIC	Oct.

\* For purposes of this table, domain registrant and domain registrant organization are combined.

Consistent domain naming conventions across several domain registrations and clustered during specific time periods help define a nexus between CaramelCorp and whois records that include “Ozil Verfig.” But how many of these domains are a signal instead of noise, and does that signal relate to CaramelCorp? The answer is simple. One can begin to identify a person in a crowd – even when everyone looks the same – based on their activities *outside* of that crowd.

## Forum presence of CaramelCorp promoter “letsz0ck3r”

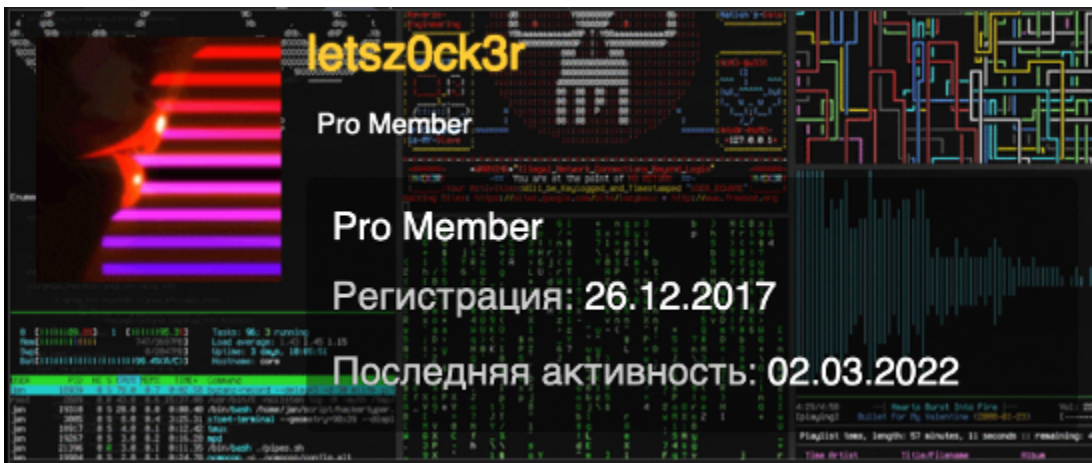


Figure 1:

UfoLabs Russian-language hacking forum profile card for user “letsz0ck3r.”

First mentioned in our earlier report, the actor “letsz0ck3r” (also known as “Zocker” and likely “or1kstar”) has a history of offering and promoting services on Russian-language cybercrime forums (Figures 1-2). Some of these may include:

- Selling “Star Stealer” malware that sends stolen data via Telegram (Figures 3-4)
- Likely use of popular off-the-shelf malware (Anubis, Redline, Arkei)
- Offering cash-out and laundering services using US-based financial institutions (Figure 5)
- Selling malware encryption and digital signature services
- Promoting a hidden virtual network computing (hVNC) module for sale

Video game mods and cheat systems (Figure 6)

Given the background of the Caramel skimmer, such products and services make sense contextually. Of this list, most services are no longer offered. This could be in response to market forces, improved technical abilities, and/or more profitable cybercrime niches.

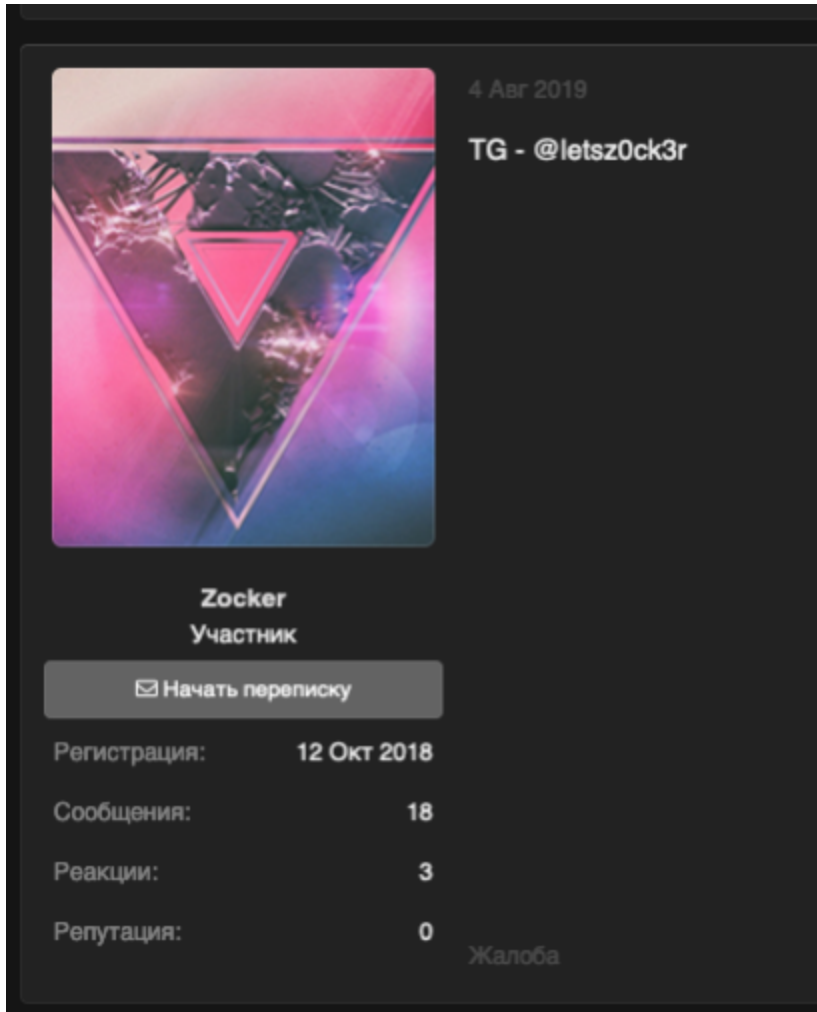


Figure 2: A SkyNetZone post

where actor “Zocker” shares the Telegram handle @letsz0ck3r as part of their contact information.

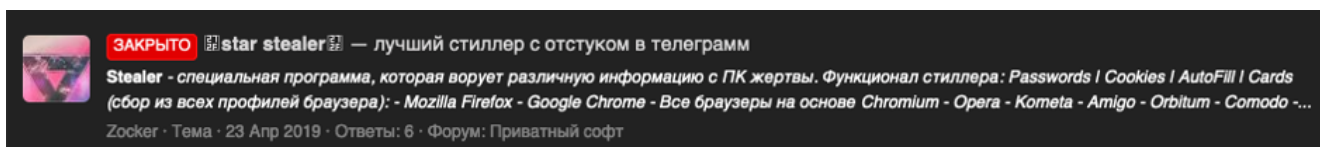


Figure 3: A SkyNetZone hacking forum post summary promoting Star Stealer malware by user “Zocker.”

23 Апр 2018

Stealer - специальная программа, которая ворует различную информацию с ПК жертвы.

Функционал стиллера:

Passwords | Cookies | AutoFill | Cards (сбор из всех профилей браузера):

- Mozilla Firefox
- Google Chrome
- Все браузеры на основе Chromium
- Opera
- Kometa
- Amigo
- Orbitum
- Comodo
- Torch
- Yandex Browser

Telegram session (стилинг телеграм сессии)

FileZilla data (стилинг паролей из FTP клиента FileZilla)

Steam data (граббинг файлов для обхода Steam Guard в Steam)

Photo (фото с вебкамеры жертвы)

ScreenShot (скриншот рабочего стола)

UserAgents Generator (генерация UserAgents под браузеры жертвы)

Удобный и красивый вид лога

Граббинг текста из буфера обмена

Запуск почти на любой машине

Не нужно выбирать и запариваться с хостингами, так как логи приходят ПРЯМО ВМ В TELEGRAM

Удобный поиск в Telegram по основным запросам логов (по желанию добавлю ваш запрос)

Регулярная чистка билда, лайфтайм поддержка и скидки на будущий софт

Спойлер: Правила

Спойлер: Вид Лога

Детект 1/26

Figure 4:

SkyNetZone hacking forum post promoting “Star Stealer,” which claims to steal a wide array of data and be largely undetectable by antivirus services.



Effective methods of cashing out balance sheets.  
\*Accounts are not blocked after the first attempts, as is the case with revolution and merch.\*  
We can make up to \$12,000 from an account at a time, the conditions are negotiated separately.  
Almost always connected  
We guarantee that money with VCC will not hang anywhere, as is often the case with similar services.

Figure 5: Translation

of actor “Zocker” promoting their cash-out services.

Along with a Russian-language hacking forum presence, “letsz0ck3r” appears interested in video game mods and cheat systems. Unsurprisingly, this actor maintains a presence on the Phoenix video game hacking forum (Figure 6). They also appear to be a customer, which could suggest an interest in gaming beyond exploitation. This activity proved to be especially helpful in this investigation.

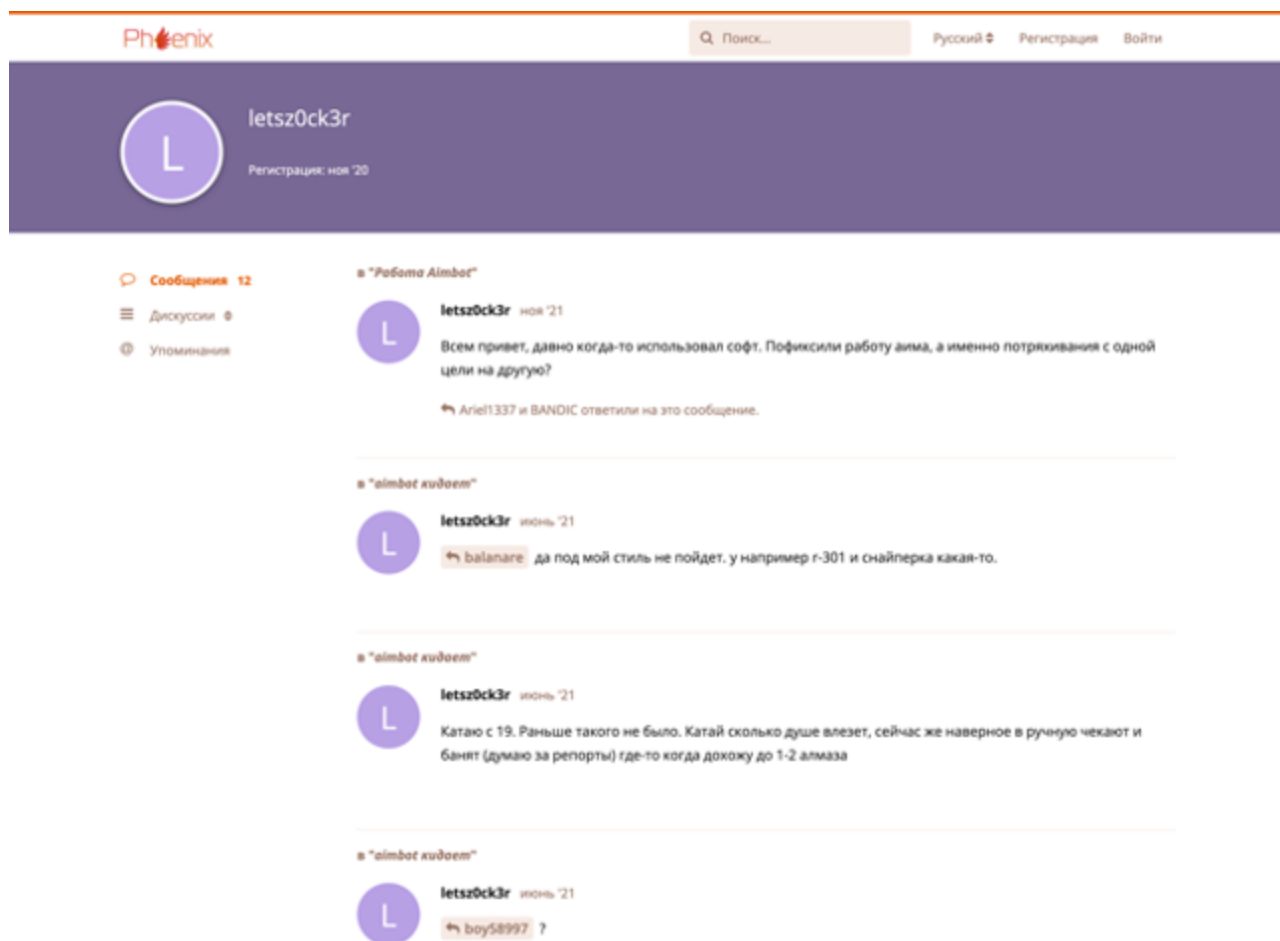


Figure 6: Examples of “letsz0ck3r” presence on the Phoenix video game hacking forum. Notably, their activity appears to center around aimbots—videogame cheats that vastly improve a player’s reaction time and aim by modifying game configuration files via code

injection as well as using other methods. These modifications almost always violate multiplayer game terms of service.

Video game mods and cheat systems represent a tiny fraction of the underground economy, but their context deserves particular attention. Video game mods are frequent malware propagation vectors. Sometimes threat actors pair a game cheat system with malware; others are rudimentary and simply install malware. The prospect of an unfair advantage in online competitive games makes prospective targets much more likely to install them and ignore antivirus alerts (see Figure 7 for an illustrative example). Because such cheat systems often use code injection to operate, requests to disable Windows Defender entirely and run the program with administrator-level privileges seem credible to prospective targets. Malicious video game mods will often install stealer malware. Notably, DomainTools Research monitors several Redline campaigns that use this precise propagation vector.

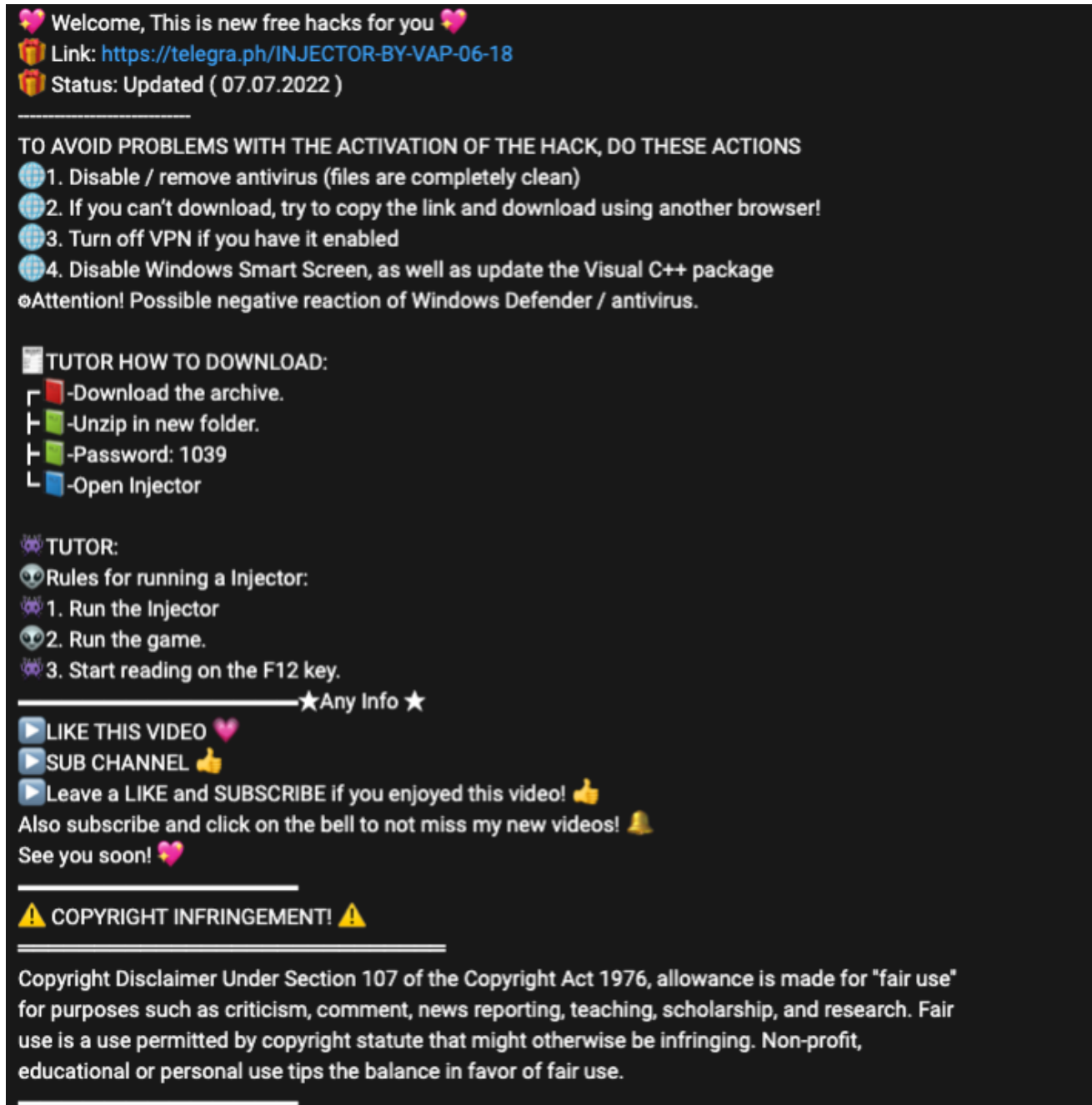


Figure 7: Description of an almost certainly malicious videogame cheat system from a recently uploaded YouTube video. Used for illustrative purposes and without apparent ties to CaramelCorp. After claiming “files are completely clean,” the guide then requests potential victims disable Windows Smart Screen and Defender.

Several domains associated with CaramelCorp offer likely malicious video game mods and cheat systems. These domains use the domain registrant organization “Ozil Verfig.” Some examples include the domains valorannow[.]com and fortnightcheat[.]com (Figures 8-9). Both appear to be slightly modified clones of other very suspicious video game mod services.

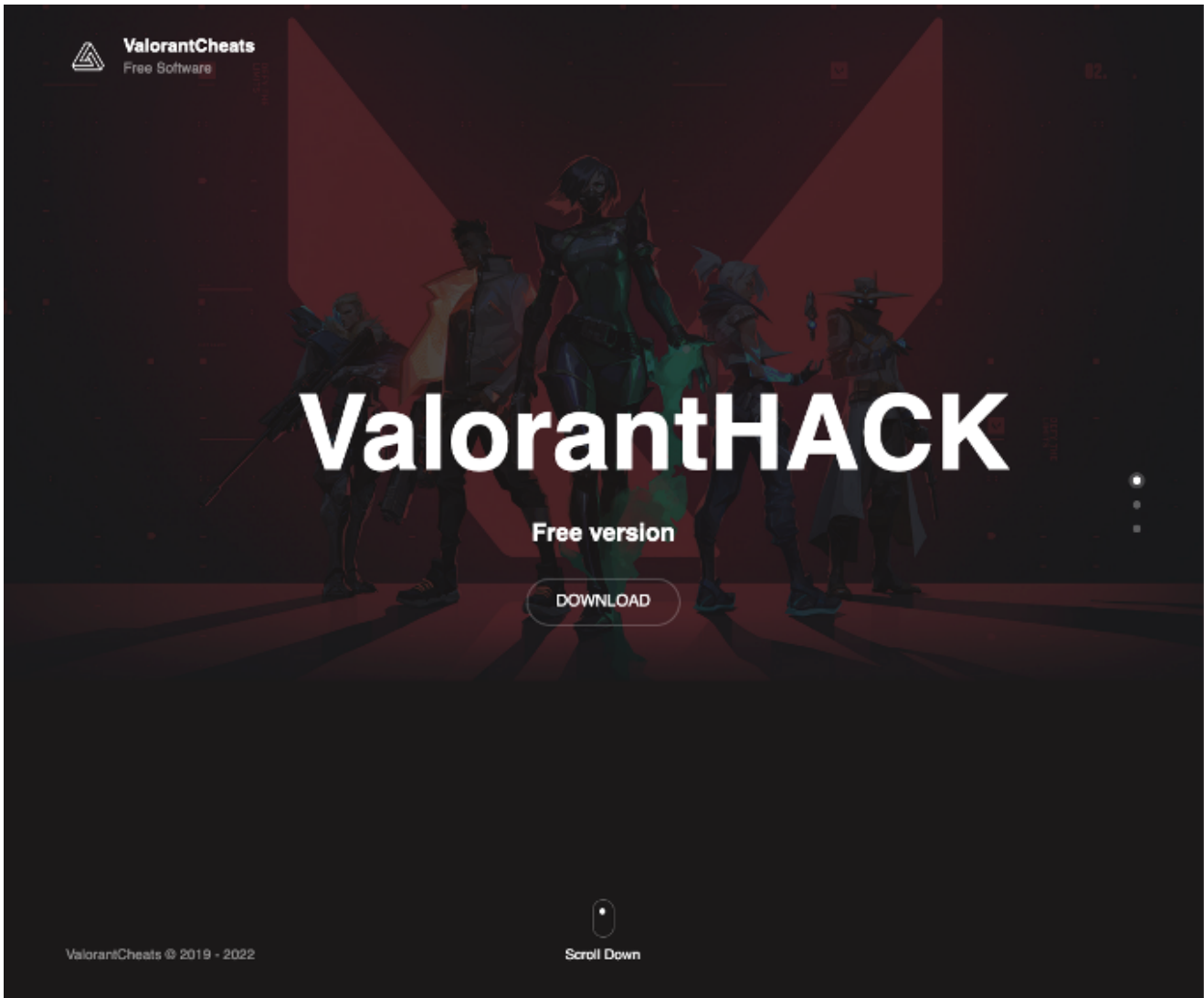


Figure 8: Screenshot of CaramelCorp-associated valorannow[.]com. Likely tied to malware activity, this game cheat engine targets Valorant players.

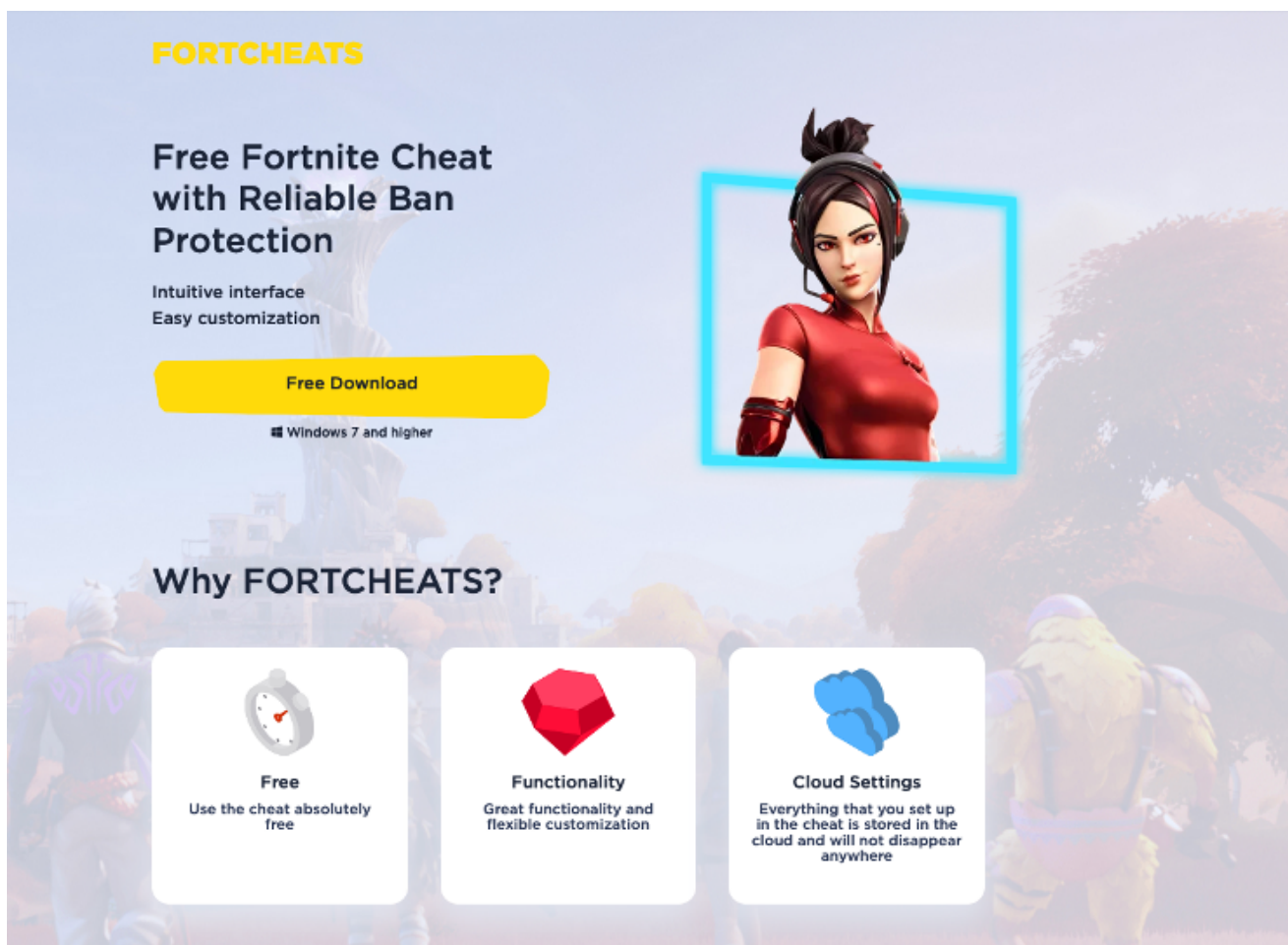


Figure 9: Screenshot of CaramelCorp-associated fortnightcheat[.]com. Likely tied to malware activity, this game cheat engine targets Fortnite players.

But what more can one learn from domains and why would that matter? Sometimes threat actors inadvertently reveal additional cybercrime activity. Here, a minor OPSEC mistake suggests “letsz0ck3r” also has a keen interest in cryptocurrency scams. Their mistake: using one domain for two very different types of scam.

## Cryptocurrency scams

Cryptocurrency scams are legion, and CaramelCorp’s adoption of them should surprise no one. The purpose of a cryptocurrency scam is primarily cryptocurrency theft (or, in some cases, an attempt to install malware). More advanced cryptocurrency scams, referred to as “drainers,” not only steal credentials and wallet recovery phrases—they also empty cryptocurrency wallets and transfer the funds to an attacker-controlled wallet long before a victim even realizes their mistake. These stolen funds are almost certainly unrecoverable when transferred and, especially when laundered using privacy-focused cryptocurrencies, exceedingly difficult to track by investigators.

A simpler cryptocurrency scam uses “airdrops,” “money flips,” and “crypto giveaways” as lures to defraud victims. Each of these scams rely on the ruse that sending cryptocurrency somewhere will result in a massive short-term return on investment. Victims lose all the

cryptocurrency they send, which is then laundered by fraudsters. Like drainers, funds stolen using this scam are almost certainly unrecoverable. As economists have long said, there is no free lunch.

And why are these scams becoming so commonplace? The answer is painfully straightforward: they succeed, with victim losses in the billions of dollars. Another key driver in the increasing popularity of cryptocurrency scams is decentralized finance (“DeFi”) paired with the vast swath of cryptocurrency projects and services operating in the DeFi space. Separating legitimate DeFi services from malicious ones can become difficult for even experienced cryptocurrency traders.

## **A clearer picture of CaramelCorp with blurred lines**

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Importantly, overlap in cybercrime activity can occur on the same domain and help further define a nexus of activity related to an actor group. Here, domains associated with CaramelCorp have historical screenshots of both likely malicious video game cheats and cryptocurrency scams within a relatively brief timeframe (Figures 10-11). The domain `skinchangenow[.]com` is by no means the exception.



# Skinchanger

Customize yourself in any game absolutely for free.  
The best tuning solution in games.

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The best skin changer for CS:GO. Custom skins, models, knives, players, statrek/float settings and more!  
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Figure 10: Likely malicious “Skinchanger” video game mod at skinchangenow[.]com.



# Hurry up and take part in the giveaway of 5 000 000 ADA

During this unique event we will give you a chance to win 5 000 000 ADA, have a look at the rules and don't miss on your chance!

Participate in the giveaway

ADA / USD +4.68 %

0.891 \$

BTC / USD +1.15 %

41 915.43 \$

## HOW IT WORKS

We believe that Blockchain and ADA Coin will make the world more fair. To speed up the process of cryptocurrency mass adoption we decided to run 5 000 000 ADA giveaway.



1 to send from  
immediately send you back from 20 ADA to 200 000 ADA (x2) to the address you sent it from.

Figure 11: Cryptocurrency giveaway scam targeting Cardano holders at skinchangenow[.]com.

The CaramelCorp-associated domain valorannow[.]com featured a cryptocurrency scam that was replaced weeks later with a landing page for the very suspicious “ValorantCheats” website (Figure 12).

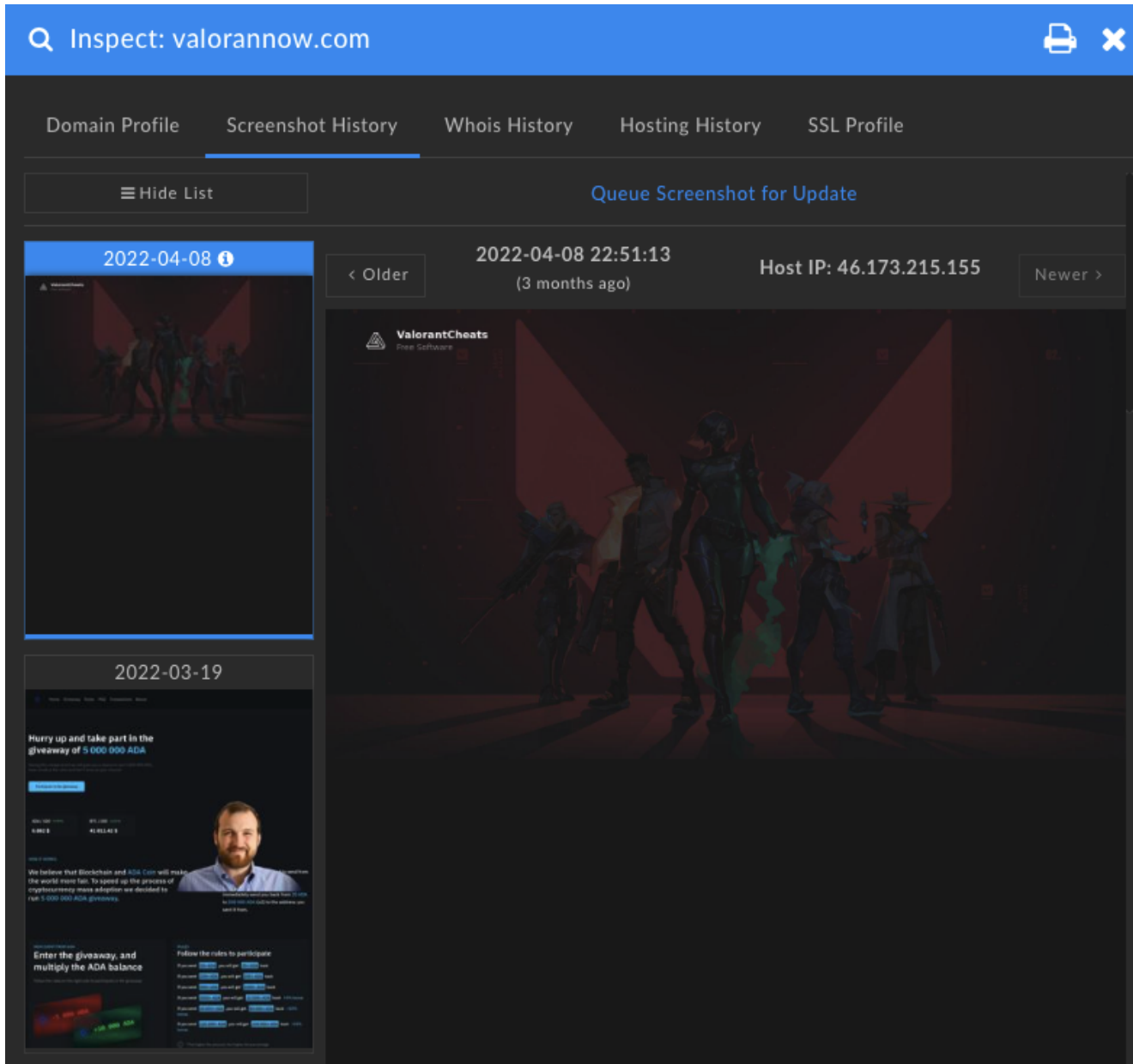


Figure 12: DomainTools Iris Investigate screenshot history feature reveals how the domain valorannow[.]com first began as a cryptocurrency giveaway scam.

Interestingly, a historical screenshot of another CaramelCorp-associated domain appears to show a data table viewable by an unauthenticated user. The domain in question is gotxest[.]top. This data table's columns suggests its purpose was to collect skimmed payment data (Figure 13):

ID  
 URI  
 BIN  
 Number  
 Expired  
 CVV  
 Billing  
 ZIP  
 Cardholder  
 Phone  
 UAgent

Label										
ID	URI	BIN	Number	Expired	CVV	Billing	ZIP	Cardholder	Phone	UAgent
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

Figure 13: What appears

to be a table for skimmed card data exposed to the public web at gotxest[.]top, another domain associated with CaramelCorp.

Given CaramelCorp’s interest in online credit card skimming, this historical screenshot of gotxest[.]top’ helps solidify further the nexus between “Ozil Verfig” domains and CaramelCorp’s activities as a whole.

Taken together, a detailed portrait of CaramelCorp comes into focus. Instead of a skimmer-as-a-service vendor, CaramelCorp represents a group focused on profit maximization that pivots based on market signals, and—more importantly—one willing to learn from years of experience. CaramelCorp’s behavior in this regard appears to be part of a trend, but not all is lost for defenders. An analyst mindset combined with quality data sets allow defenders to define, detect, and defend against threats promptly when threat actors pivot (or expand) activities based on market shifts in the underground economy. Happy hunting.

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<b>Cookie</b>	<b>Duration</b>	<b>Description</b>
cookieLawinfo-checkbox-analytics	11 months	This cookie is set by GDPR Cookie Consent plugin. The cookie is used to store the user consent for the cookies in the category "Analytics".
cookieLawinfo-checkbox-functional	11 months	The cookie is set by GDPR cookie consent to record the user consent for the cookies in the category "Functional".
cookieLawinfo-checkbox-necessary	11 months	This cookie is set by GDPR Cookie Consent plugin. The cookies is used to store the user consent for the cookies in the category "Necessary".
cookieLawinfo-checkbox-others	11 months	This cookie is set by GDPR Cookie Consent plugin. The cookie is used to store the user consent for the cookies in the category "Other".
cookieLawinfo-checkbox-performance	11 months	This cookie is set by GDPR Cookie Consent plugin. The cookie is used to store the user consent for the cookies in the category "Performance".
viewed_cookie_policy	11 months	The cookie is set by the GDPR Cookie Consent plugin and is used to store whether or not user has consented to the use of cookies. It does not store any personal data.

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Analytical cookies are used to understand how visitors interact with the website. These cookies help provide information on metrics the number of visitors, bounce rate, traffic source, etc.

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