



The French stealer ecosystem: *The resurgence of skid gangs in cybercrime landscape*

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Big Thanks!

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French stealer ecosystem: *The resurgence skid gangs in cybercrime landscape* _

Genesis of this talk

- 2024 French cyberattacks:
A wave of attacks saw credentials stolen from streamers to compromise major French companies.
- Undocumented threat actors:
Our investigation uncovered new, smaller groups behind these attacks, about whom little information was publicly available.
- Ignoring the smaller threat:
This focus overlooks the threat posed by smaller, more discreet groups, which target individual users and accumulate fewer victims.

Summary_



1

Anatomy
of stealers

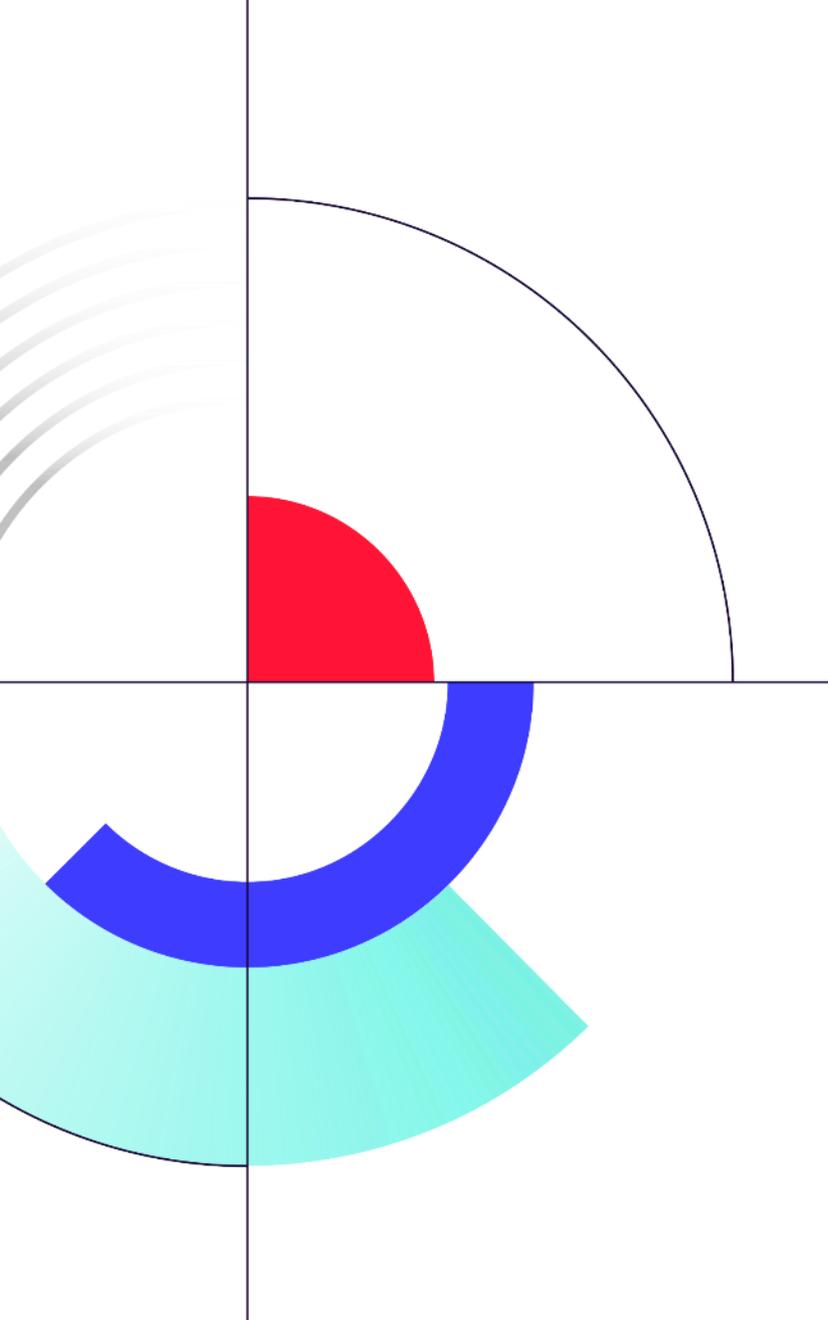
2

Anatomy of groups
and their lack of
awareness

3

Why watching and
understanding them
matters

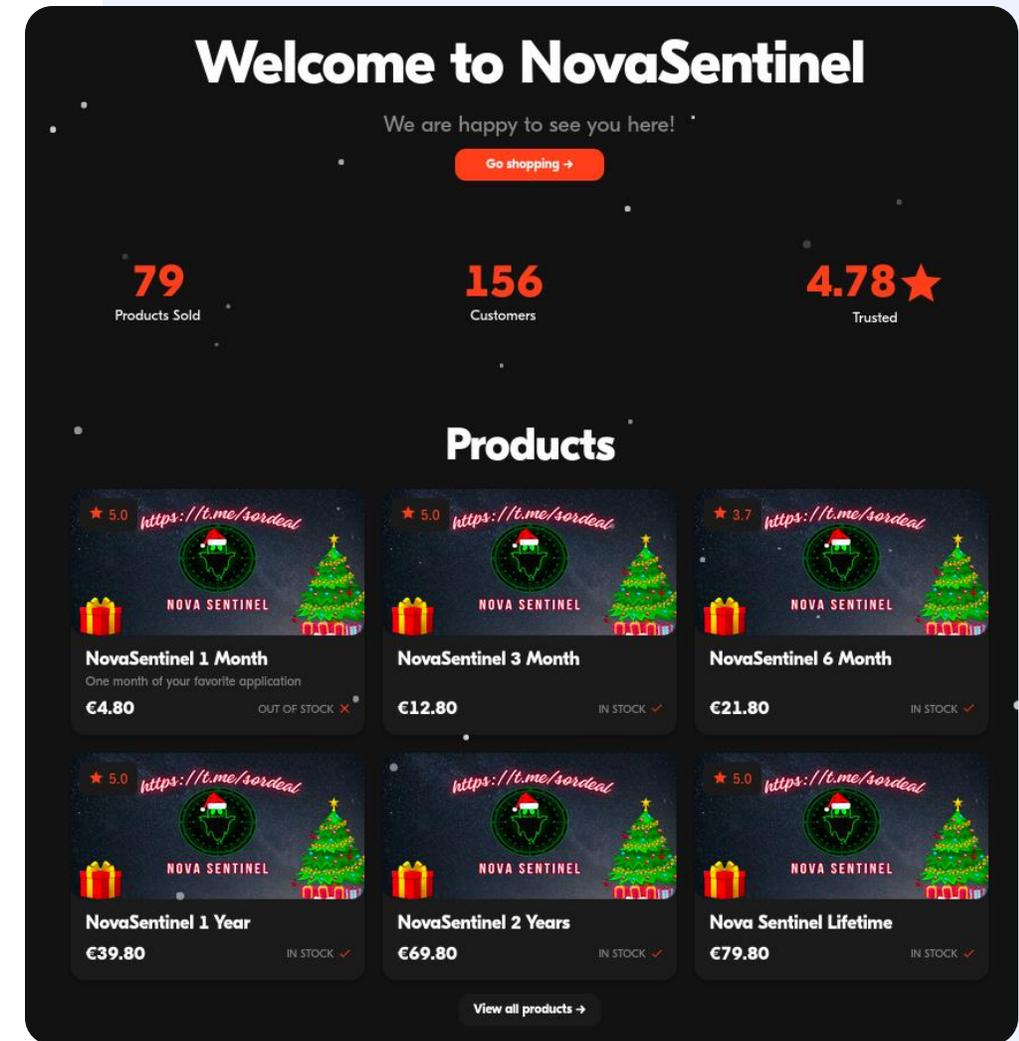
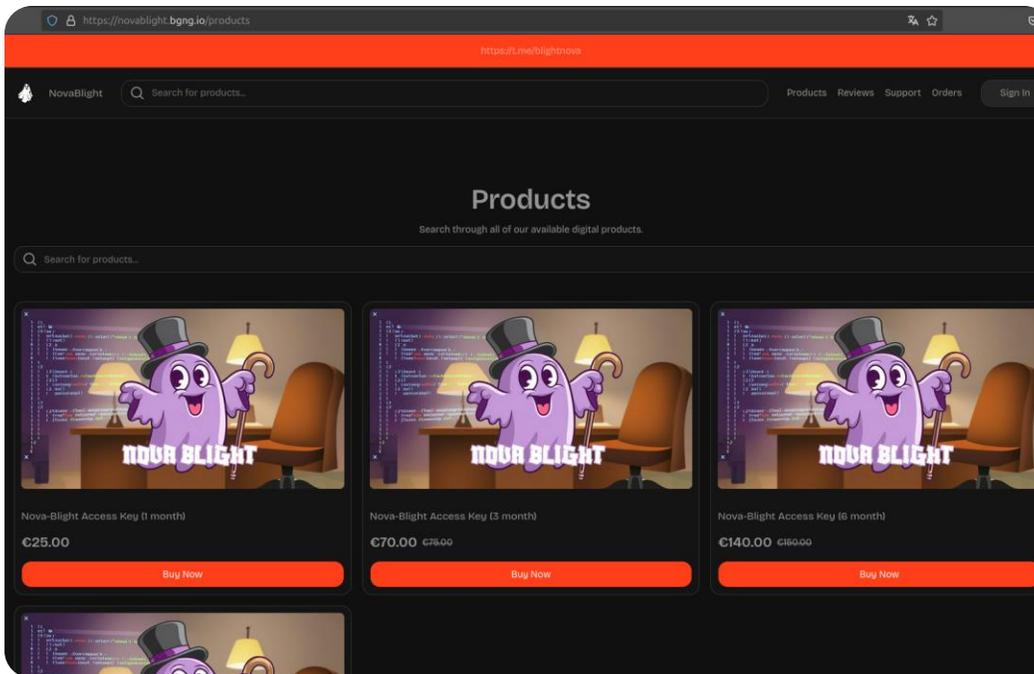
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Anatomy of Stealer_

The example of Nova_

- > A representative French threat:
The sordeal/Nova Group is an ideal case study.
- > Tracking their evolution:
We've followed the group from their early, less-sophisticated days.



The evolution_

Nova stealer's evolution (2023-2025)

- > Enhanced obfuscation:
JS obfuscation still reversible
- > Targeting high-value data:
cryptocurrency wallets, bank accounts,
and password managers
- > Frequent rebranding:
The group regularly rebrands its malware
- > Develop interfaces:
Better ergonomoy and Ux

```
var
_p_6360510295, __p_6090388422, __globalObject, __TextDecoder, __Uint8Array, __Buffer, __String, __Array, utf8ArrayToStr, __p_1771757896, __p_2037013734, __p_9061424283, __p_54161
44672, __p_9374636988, __p_8436536008, __p_4697570316, __p_2498060322, __p_4311261976, __p_9908783140, __p_7517508856, __p_2437336323, __p_7356388670_dispatcher_19_payload;fun
ction __p_5542160921_dLR_0(index_param){return __p_6360510295[index_param>1073?index_param-49:index_param-71?index_param-90:index_param-1073?
index_param+75:index_param-1073?index_param-71?index_param+26:index_param+71?index_param+71?index_param-1073?index_param+13:index_param-1073?
index_param-72:index_param+6:index_param+48:index_param-64:index_param+58]}
void(__p_6360510295=__p_3634044357.call(this), __p_6090388422=__p_2490283034((__p_6184234549, __p_4435370533)=>{return __p_4435370533(__p_6184234549()),2)
(__p_3002574244, __p_0278092797));var __p_9093565321=[, __p_7830397416=__p_5542160921_dLR_0(72), __p_6197541275=__p_2490283034(()=>{var a;function
__p_6581055473_dLR_1(index_param){return __p_6360510295[index_param>-20?index_param-20?index_param+97:index_param+982?index_param-19:index_param-20?index_param-20?
index_param-54:index_param-20?index_param-982?index_param-20?index_param+19:index_param+24:index_param-76:index_param-72:index_param-10:index_param-78]}
a=['\x63\x75\x54\x3d\x6e\x23\x26\x47\x5b\x38\x77\x30\x77\x5e\x3c\x61\x4a\x45\x52\x3b\x5d\x5e\x24\x47\x39\x34\x7b\x35\x35\x2e\x5f\x69\x26\x77\x31\x48\x4e', '\u0044\u006a
\u0052\u0062\u003c\u003a\u0054\u0070\u006a\u0032\u0036\u004c\u0026\u006c\u0032\u006f\u004b\u002c\u0054\u0067\u0072\u003b\u0046\u0048\u0055\u0032\u0048\u004a\u007e\u007
7\u0053\u0063\u0079\u0041', __p_1972685499(__p_6581055473_dLR_1(-19)), __p_1972685499(__p_5542160921_dLR_0(102)), __p_1972685499(__p_5542160921_dLR_0(136)), '\u003c\u0074\
\u006f\u004a\u004a\u007b\u007c\u0042\u0029\u0035\u006b\u004b\u0049\u0050\u002f\u006e\u0030\u0066\u0058\u004a\u002b\u005b\u0047\u0071\u0073\u0046\u0051\u0034\u0062
\u0023\u006b', __p_1972685499(__p_5542160921_dLR_0(85)), __p_1972685499(__p_5542160921_dLR_0(277)), __p_1972685499(__p_6581055473_dLR_1(118)), __p_1972685499(__p_554216092
1_dLR_0(77)), __p_1972685499(__p_5542160921_dLR_0(83)), __p_1972685499(__p_5542160921_dLR_0(280)), __p_1972685499(__p_6581055473_dLR_1(190)), __p_1972685499(__p_5542160921
_dLR_0(282)), __p_1972685499(__p_6581055473_dLR_1(69)), '\u0030\u0047\u005d\u003b\u0064\u0040\u0003\u0042', __p_1972685499(__p_6581055473_dLR_1(-10)), __p_1972685499(__p_5
```

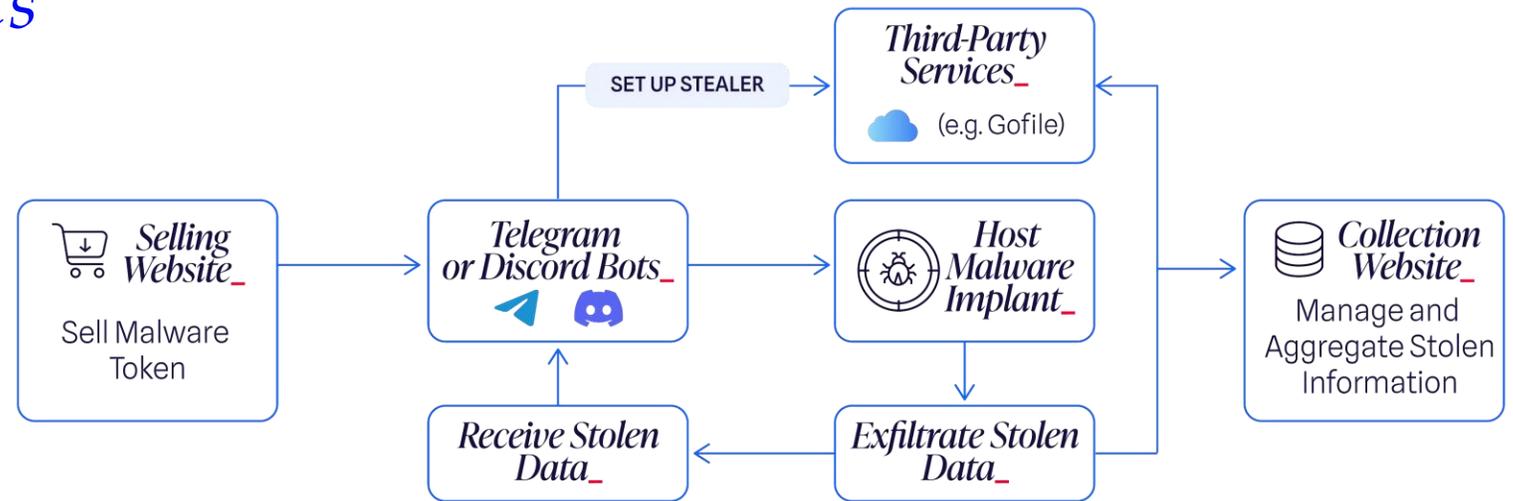
```
async function __p_2265301861_flat_hUNCHbackneverhereemperofmayhem([], __p_6315931869_flat_object) {
let hUnchBackneverhereemperofmayhem = __p_6315931869_flat_object["bo"]("./files");
let mEgarAndomnameforobfuisuselessdestroyer = 'powershell -c "Get-WmiObject -Query \\"Select * from Win32_CacheMemory\\""';
const {
["stdout"]: tHehuNchbackisuselesspirate,
["_"]: uLtimAtehunchbackisuselesswarrior
} = await __p_6315931869_flat_object["bq"](mEgarAndomnameforobfuisuselessdestroyer);
if (tHehuNchbackisuselesspirate["replace"](/\\r/gm, '\\n')["replace"](/\\n/gm, '\\r')["replace"](/ /gm, '\\ ') == '\\ ') {
return __p_9847142845_calc(false, __p_2913985707(-38));
}
return false;
}
```

```
}
console.log("Browsers gecko start cookies check");
const gLuc0Neogenesisneverherehavoc = ["gmail", "youtube", "onoff", "xss.is", "pronote", "ovhcloud", "nulled", "cracked", "tiktok",
"yahoo", "gmx", "aol", "coinbase", "binance", "steam", "epicgames", "discord", "paypal", "instagram", "spotify", "onlyfans",
"pornhub", "origin", "amazon", "twitter", "aliexpress", "netflix", "roblox", "twitch", "facebook", "riotgames", "card", "telegram",
"protonmail"];
console.log("Browsers importante sites");
```

How it works (still pretty simple)_

Key Infrastructure Elements

- > Selling Website
- > Telegram/Discord Bots: Used to set up the stealer and receive stolen data.
- > Third-Party storage Services
- > Data Collection Website: A dedicated platform for stolen information.



Process Flow_

P1 (Build Parameters via Bot)

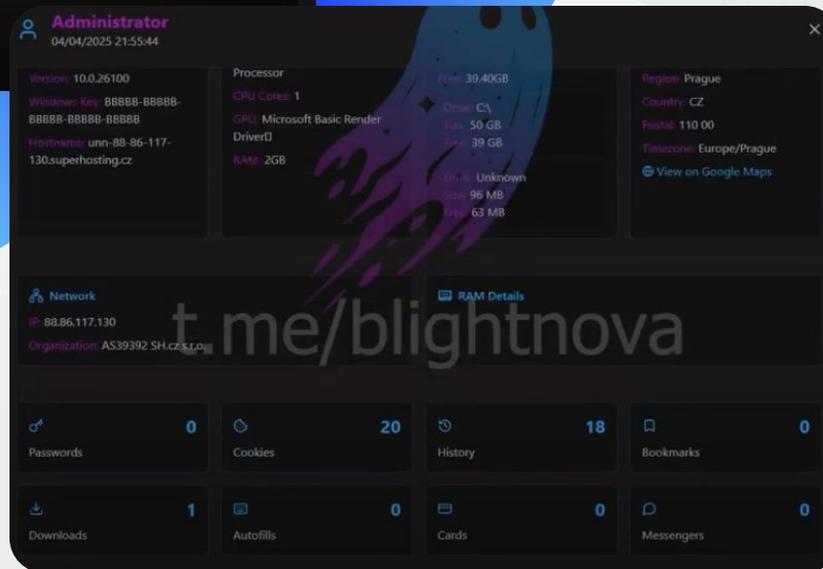
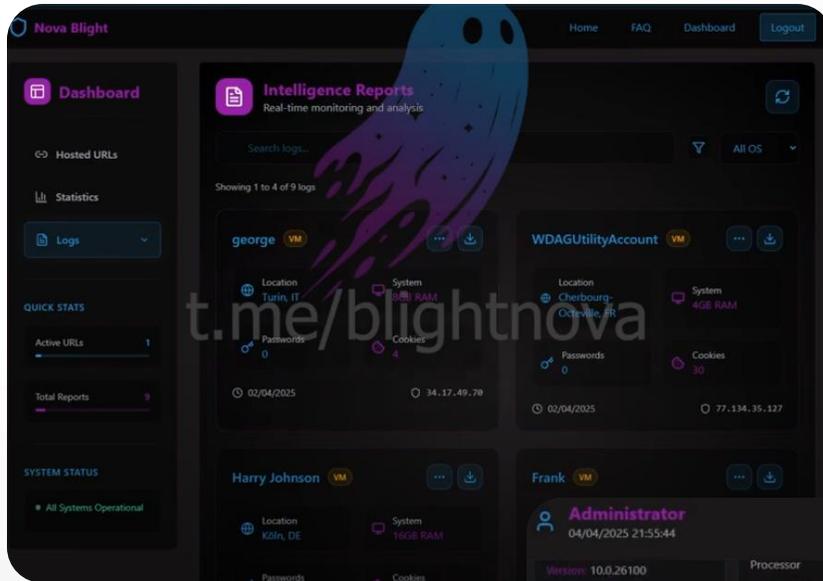


P2 (Host Implant on Gofile)



P3 (Collect Stolen Data via Website)

How it works (still pretty simple)_ Dashboard



Spreading the malware_

Targeting and distribution

- > Focus on personal users:
Nova's distribution methods, such as fake video streaming sites and video game cheats, demonstrate a clear focus on individual, not corporate, targets.
- > Corroborating evidence:
The nature of the stolen data, a large volume of personal accounts and credentials, supports this conclusion, further distinguishing Nova from groups that target corporate networks.



Similarities with opensource tools_

A broader ecosystem

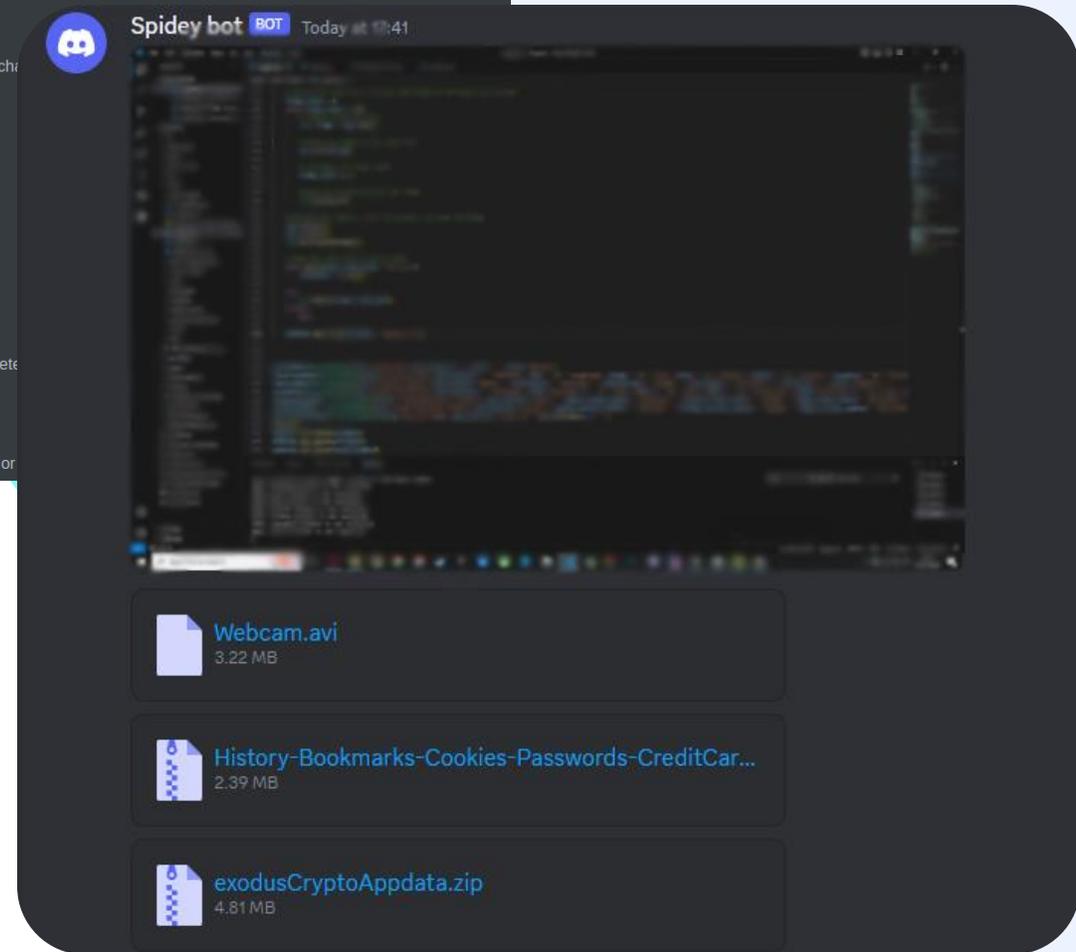
- > **Widespread Techniques**
- > **Common Infrastructure**
- > **Shared Targets**

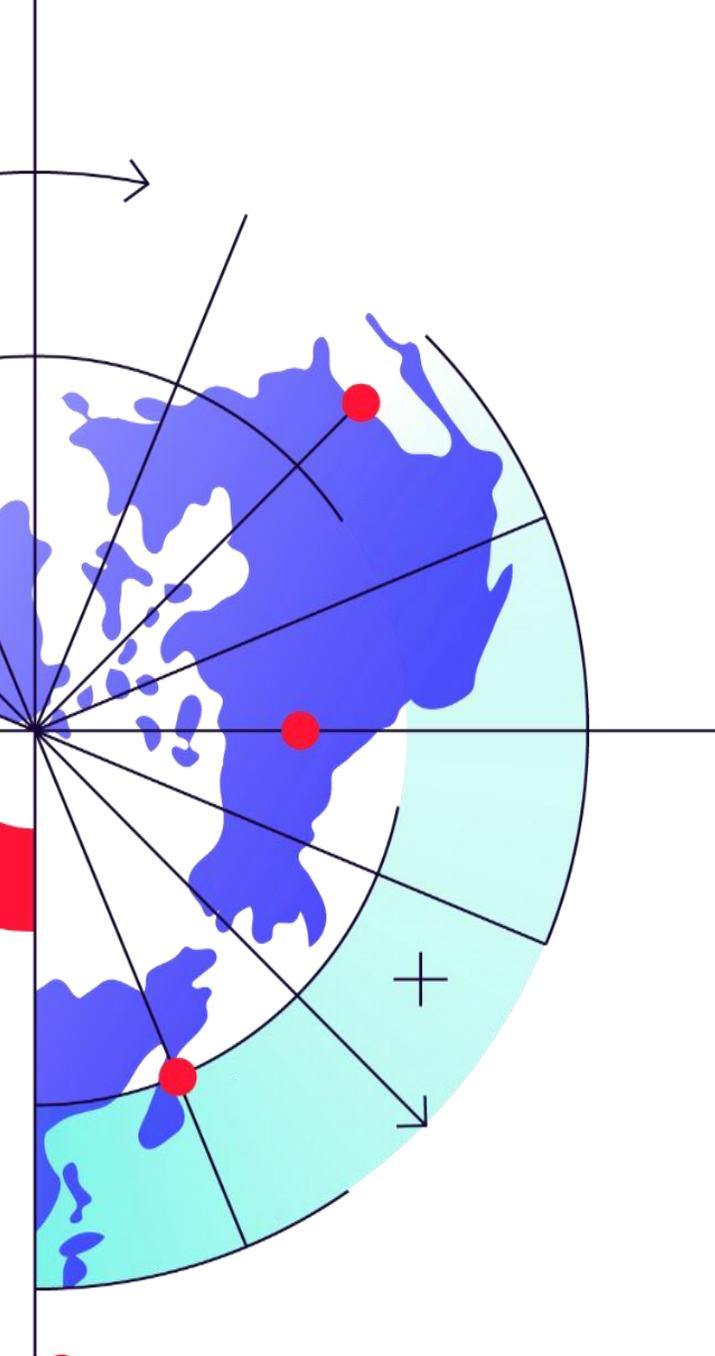
For example, a stealer called "*Bytestealer*" is one of many.

Because much of the source code for these types of stealers is often leaked or sold, it's possible to find thousands of them, each with slight or big variations.

Features

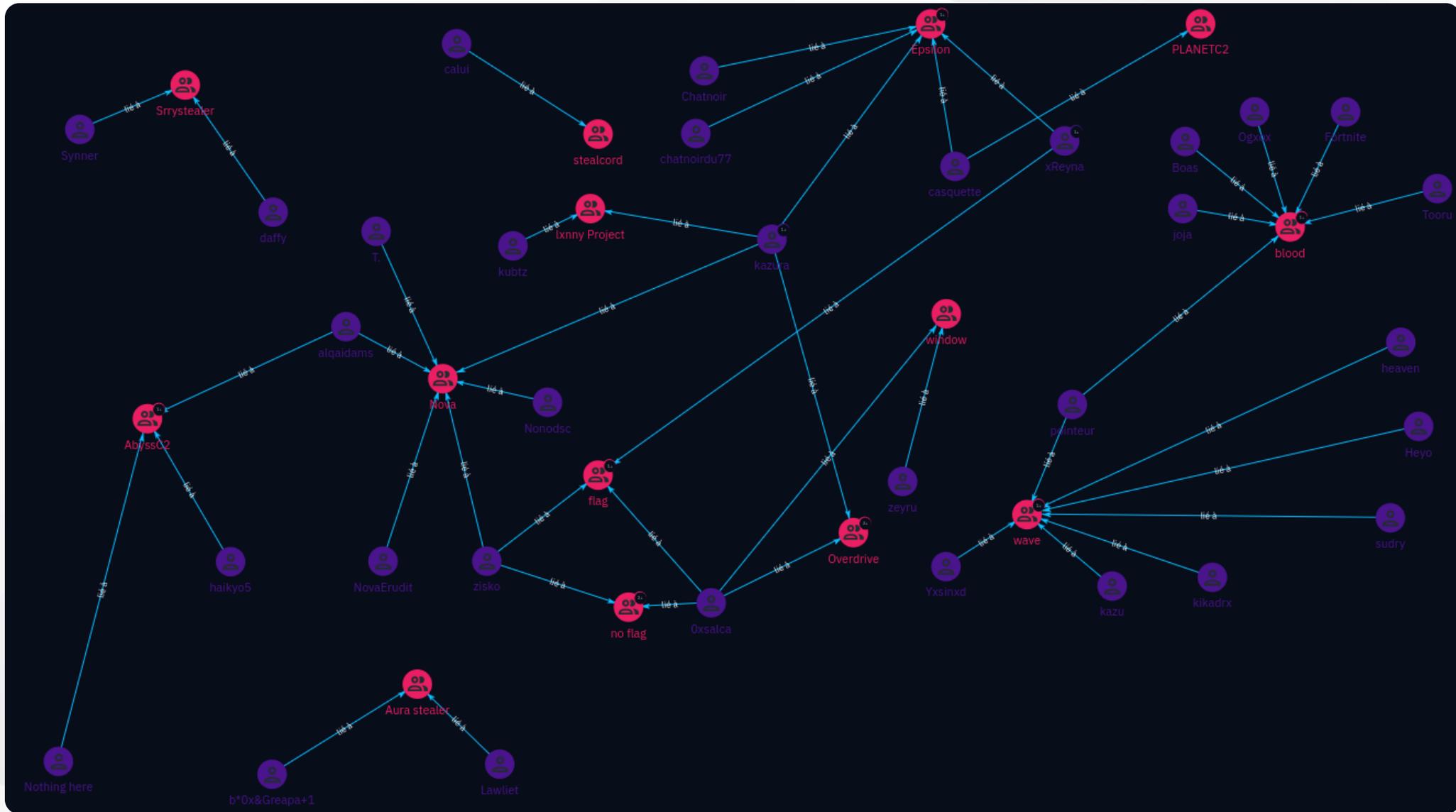
- IP logger 🌐
- System info 🖥️
- Wifi-password taker 📶
- Auto IP geolocator(city,country,postal,latitude&longitude) 🌍
- Roblox Cookie Stealer from Chrome,Opera,Firefox and Edge 🎮
- steamLoginSecure+sessionId Token Stealer (steam login cookie) from Chrome(not a client) 🎮
- Steal History-Bookmarks-Cookies-SavedLoginDetails-BrowserAutofill-CreditCards from basically all chromium browsers and sends them as .zip 📁
- Steal Discord token from all types of installation(59chr)
- Auto Screenshot as .png 📷
- Records 5s clip from webcam as .avi 📹
- Records 5s clip from mic as .wav 🎤
- Crypto Wallet Stealer: Exodus 🪙
- No local caching 🗑️
- Obfuscation/F.U.D using pyarmor(only 4 antivirus detect)
- Fake error message to not arouse suspicion
- Fully open source and easy to read/make changes or





*Anatomy of groups
and their lack of
awareness_*

The ecosystem of French speaking cybercrime actors (2nd half of 2024)_



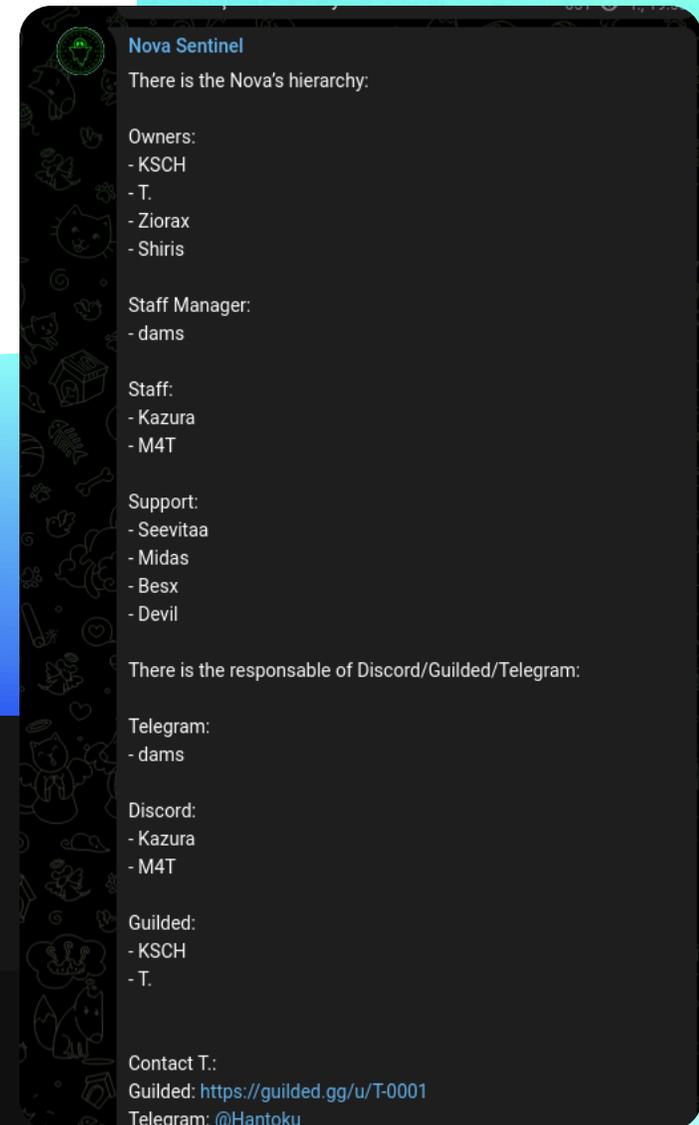
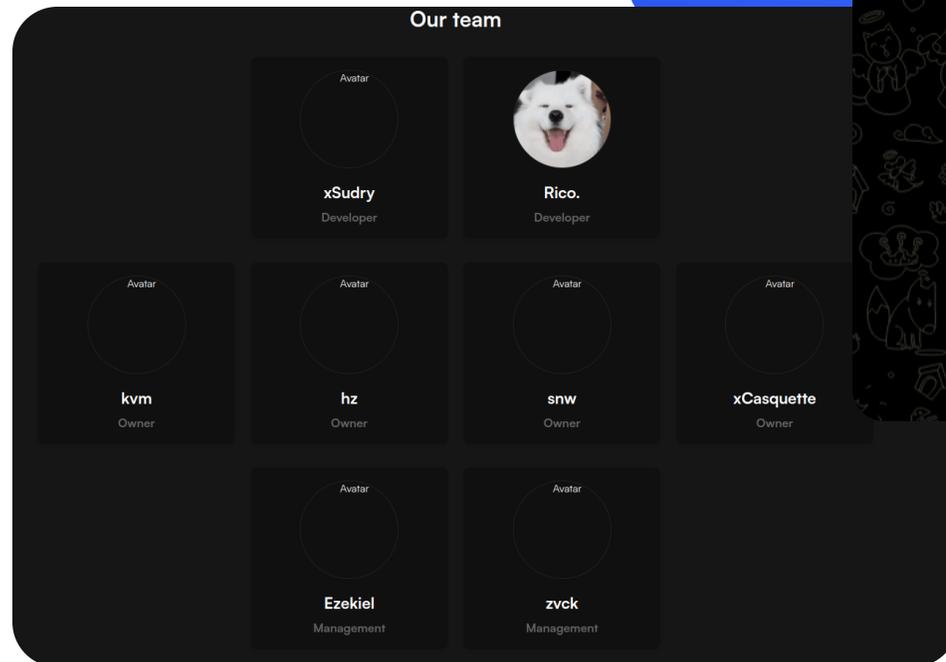
Group management_

Organizational structure

The cybercrime ecosystem has adopted a corporate-like structure with defined roles:

- > **Dev/Owners**
- > **Community Managers**
- > **Support**

This centralized structure on platforms like Telegram and Discord allows these groups to scale their operations efficiently.



Who are they_

Nova - Recruitment

Changer de compte

Non partagé

* Indique une question obligatoire

What language do you speak? *

Votre réponse

Are you in exam period? *

Yes

No

If yes, which diploma?

Votre réponse

What's your availability? *

Votre réponse

Retour Suivant Effacer le formulaire

- > Methodology of research:
We compiled information from their self-doxxed data, shared language, habits, and recruitment methods to establish these profiles.
- > Background:
Between 15 and 25 years old, still in school or university.
- > Motivation:
Primarily for "fun" and a small amount of profit, with little to no understanding of the real harm their actions cause.
- > Identity:
Drawn in by the "hacker myth," they see themselves as masters of their craft.

K [redacted] 1j. ...

salut je suis KSCH je voulais préciser que je ne fais plus parti de ce projet depuis quelques mois déjà je sais pas si tu peux éditer ton rapport ça serait sympa j'ai pas envie que la police pense que je suis encore dans ce genre de projet hyper toxique! peace et super article !

J'aime · Réagir

K [redacted] 1 day ...

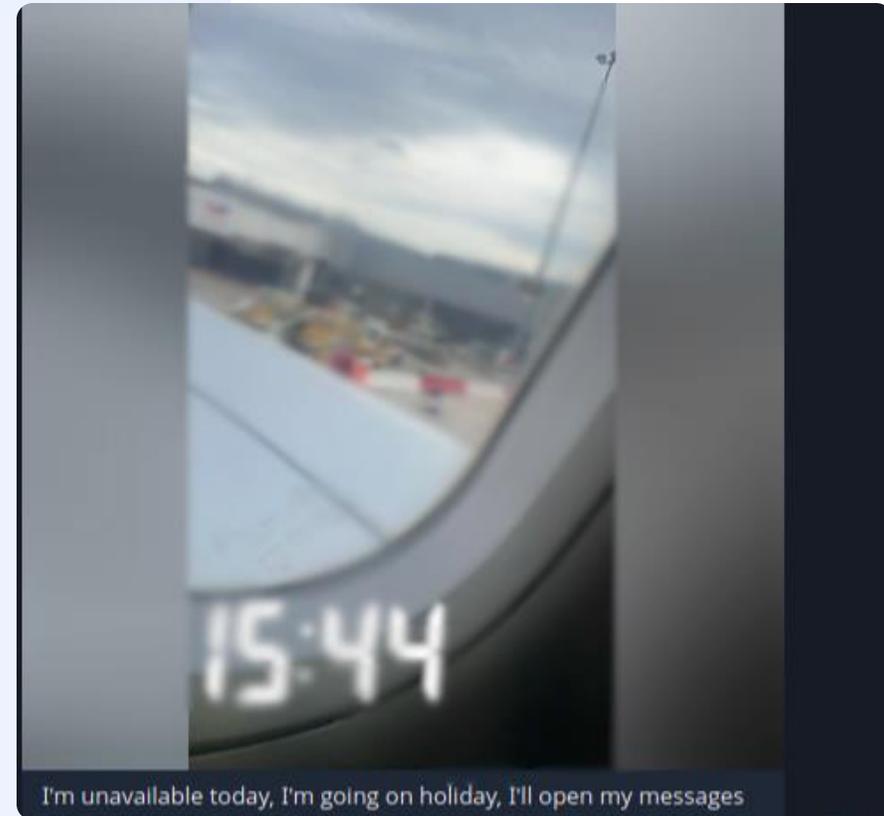
Hi, I'm KSCH. I wanted to clarify that I haven't been part of this project for a few months now. I don't know if you could edit your report. That would be nice. I don't want the police to think I'm still involved in this kind of hyper-toxic project! Peace, and great article!

Like React

Few examples of how we managed to understand who are the admin_

Operational insights: Exploiting human weakness

- > Lack of SecOps:
A significant vulnerability is the poor security culture among group administrators.
- > Careless personal sharing:
Members often post personal photos and details from their holidays.
- > The power of pseudonyms:
Reused pseudonyms are a major weakness.



Address: [REDACTED] edited 18:35

Go there for a chance to meet [REDACTED] perform an acrobatic flip and steal his phone 18:36

l'adresse : [REDACTED] изменено 18:35

allez y pour avoir une chance de rencontrez [REDACTED] afin de lui faire une retourner acrobatique et de lui voler son tel 18:36

Diversification of cybercrime activities_

Additional administrator activities

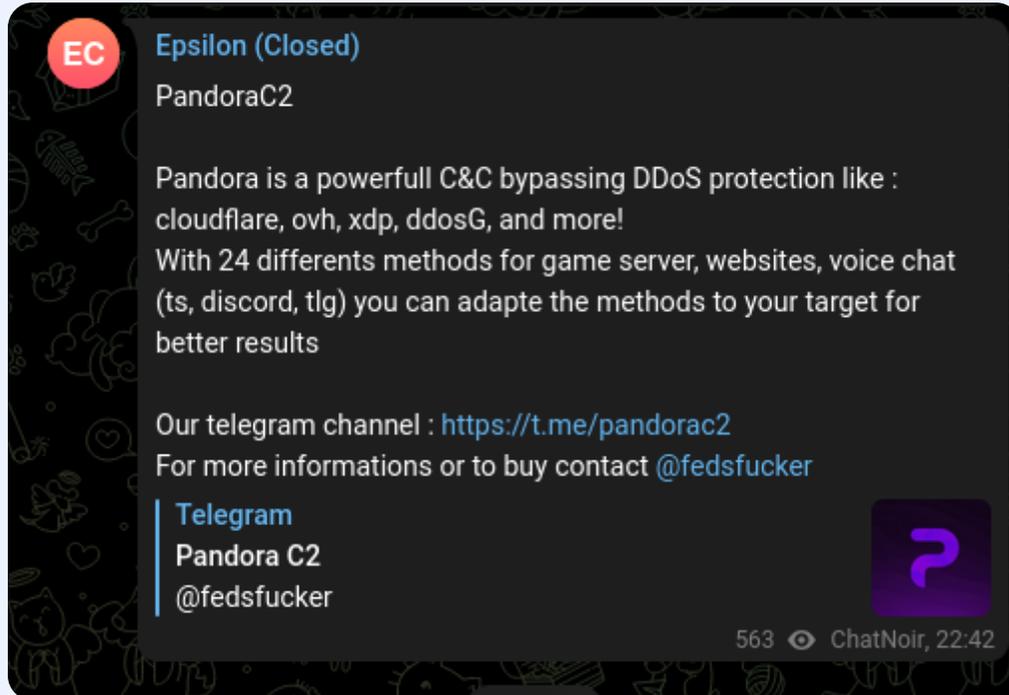
- > **Revenge porn groups:**
Some administrators of these groups are also involved in revenge porn or Onlyfan leak groups.

**no content
needed**

Diversification of cybercrime activities_

Additional administrator activities

- > **C2 for DDOS activities:**
They advertise these services on their Telegram channels and actively participate in the attacks.



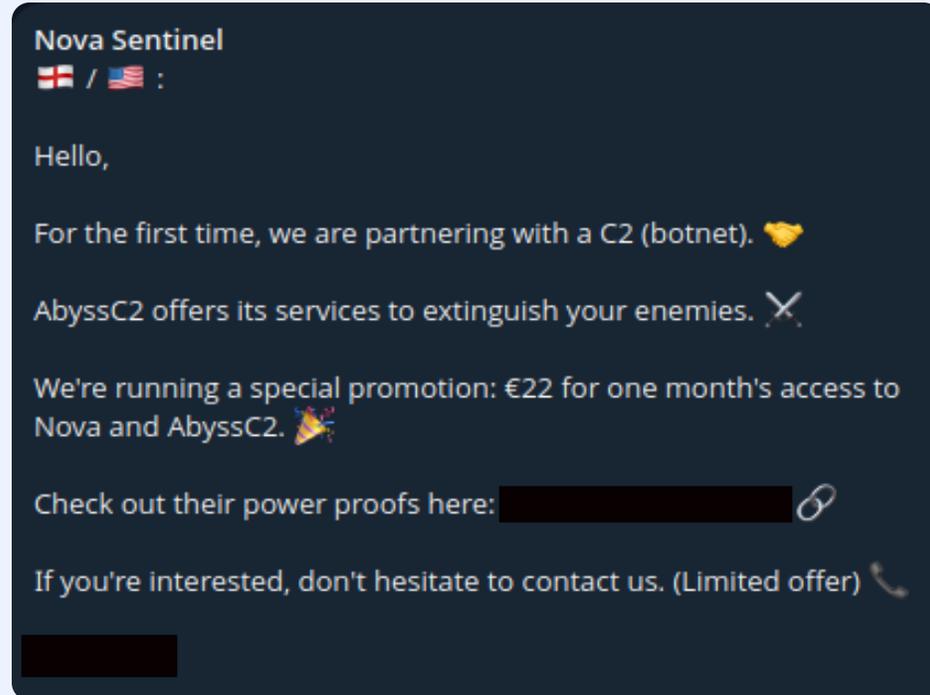
EC Epsilon (Closed)
PandoraC2

Pandora is a powerfull C&C bypassing DDoS protection like :
cloudflare, ovh, xdp, ddosG, and more!
With 24 differents methods for game server, websites, voice chat
(ts, discord, tlg) you can adapte the methods to your target for
better results

Our telegram channel : <https://t.me/pandorac2>
For more informations or to buy contact @fedsfucker

Telegram
Pandora C2
@fedsfucker

563 👁 ChatNoir, 22:42



Nova Sentinel
🇩🇰 / 🇺🇸 :

Hello,

For the first time, we are partnering with a C2 (botnet). 🍷

AbyssC2 offers its services to extinguish your enemies. ✂

We're running a special promotion: €22 for one month's access to
Nova and AbyssC2. 🎆

Check out their power proofs here: [redacted] 🔗

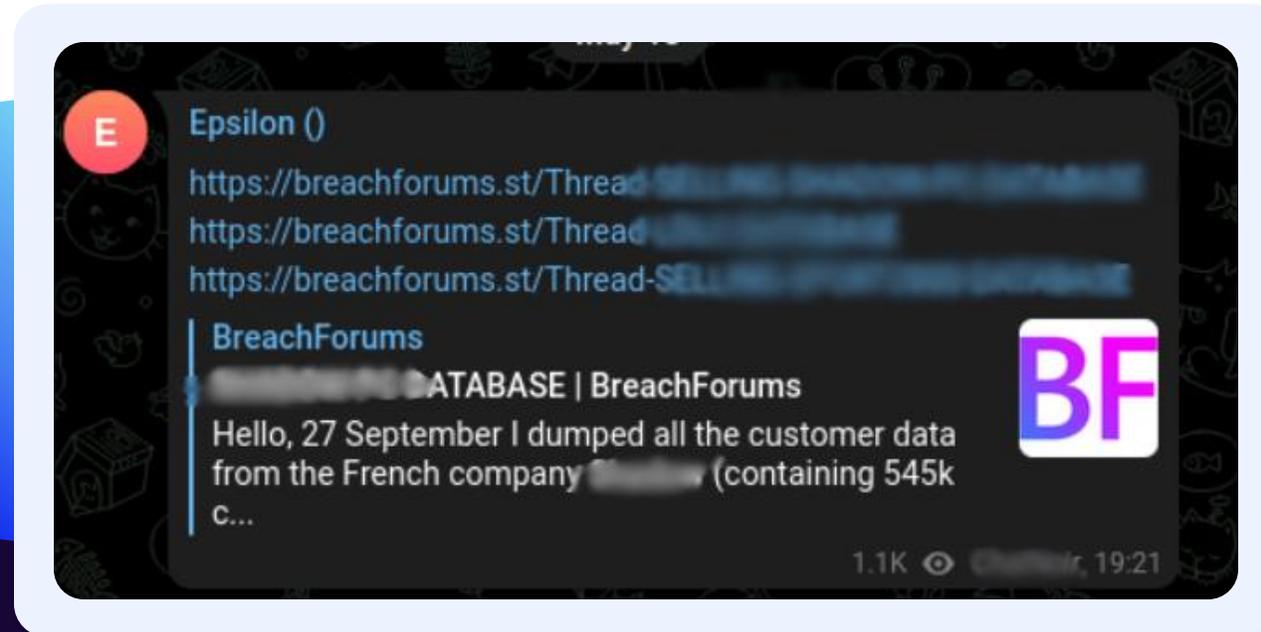
If you're interested, don't hesitate to contact us. (Limited offer) 📞

[redacted]

Diversification of cybercrime activities_

Additional administrator activities

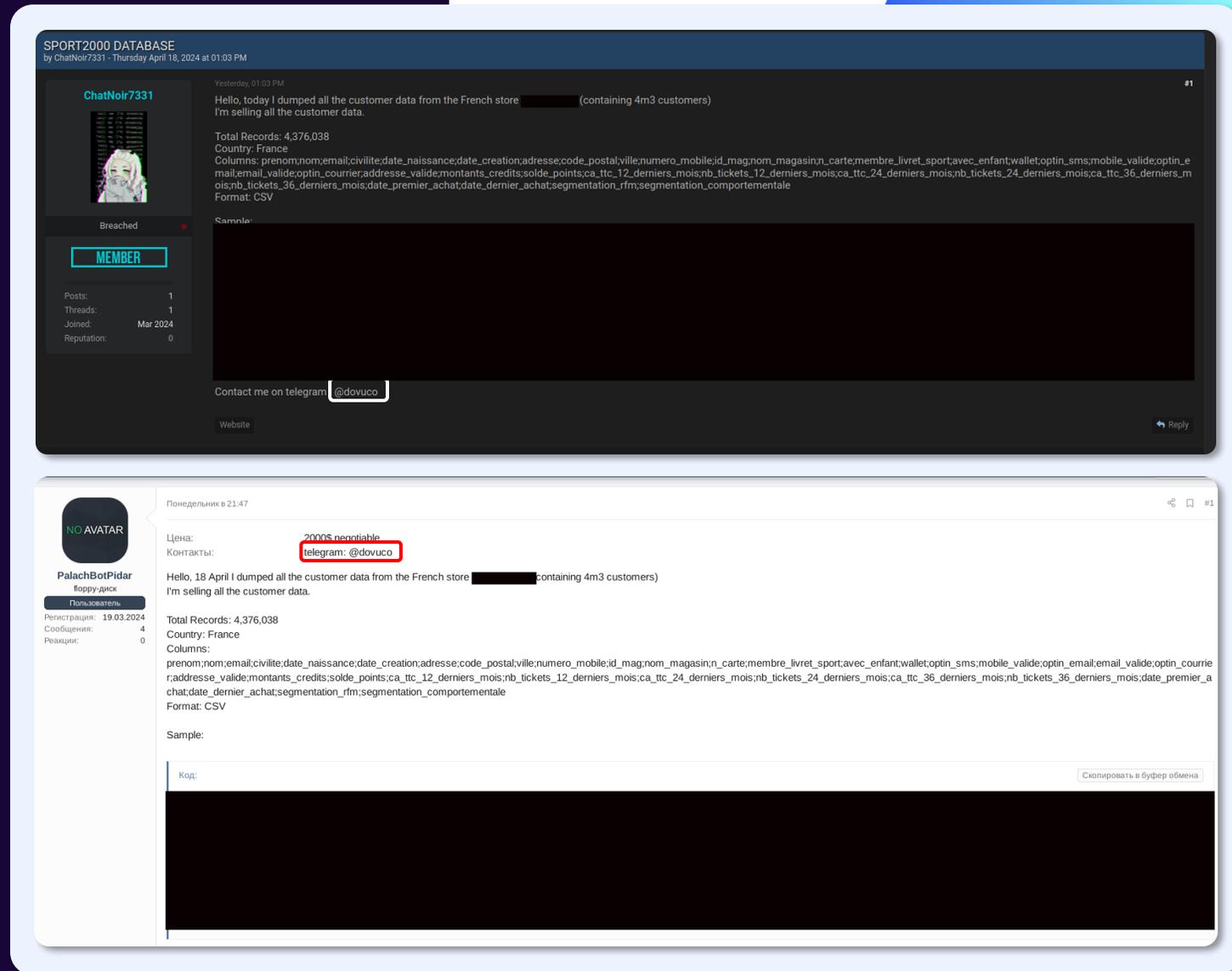
- > Hacking companies and reselling data:
We found a specific case involving the Epsilon group, which was responsible for hacking media and other companies in France.
- > This group was known for selling stolen data on the cyber black market, and their 2024 breach resulted in the exposure of millions of customer records.



Specific case of Epsilon regarding diversification

Epsilon: A case study

- > Epsilon was a French stealer group that compromised and sold data from several companies.
- > They sold their stolen data on multiple forum.
- > The uniqueness of their messages across different forums is a key indicator.
- > This consistency allows us to confidently attribute the messages to the same group.



Specific case of Epsilon regarding diversification_

Revolut Pro accounts and money laundering

- > This account has multiple interactions, including scam reports.
- > The account holder attempted to purchase Revolut Pro accounts
- > The link between the purchase request and previous activities (stealer or database sales) is currently unknown.

Понедельник в 21:47

Цена: 2000\$ negotiable
Контакты: telegram: @dovuco

PalachBotPidar
форру-диск
Пользователь
Регистрация: 19.03.2024
Сообщения: 4
Реакции: 0

Hello, 18 April I dumped all the customer data from the French store ██████████ (containing 4m3 customers)
I'm selling all the customer data.

Total Records: 4,376,038
Country: France
Columns:
prenom;nom;email;civilite;date_naissance;date_creation;adresse;code_postal;ville;numero_mobile;id_mag;nom_magasin;n_carte;membre_livret_sport;avec_enfant;wallet;optin_sms;mobile_valide;optin_email;email_valide;optin_courrier;adresse_valide;montants_credits;solde_points;ca_ttc_12_derniers_mois;nb_tickets_12_derniers_mois;ca_ttc_24_derniers_mois;nb_tickets_24_derniers_mois;ca_ttc_36_derniers_mois;nb_tickets_36_derniers_mois;date_premierachat;date_dernier_achat;segmentation_rfm;segmentation_comportementale
Format: CSV

PalachBotPidar
форру-диск
Пользователь
Регистрация: 19.03.2024
Сообщения: 4
Реакции: 0

Context: Today, an escrow sale was conducted for the purchase of a Revolut Business account for \$700. However, both the seller and the escrow have blocked and removed me from the escrow group. I simply wish to report and request the banning of the mentioned XSS account above, with supporting screenshots.

Контекст: сегодня была проведена сделка условного депонирования для покупки бизнес-аккаунта Revolut за 700 долларов США. Однако и продавец, и условное депонирование заблокировали меня и удалили из группы условного депонирования. Я просто хочу сообщить и попросить заблокировать упомянутую выше учетную запись XSS, приложив подтверждающие скриншоты.

////////////////////////////////////

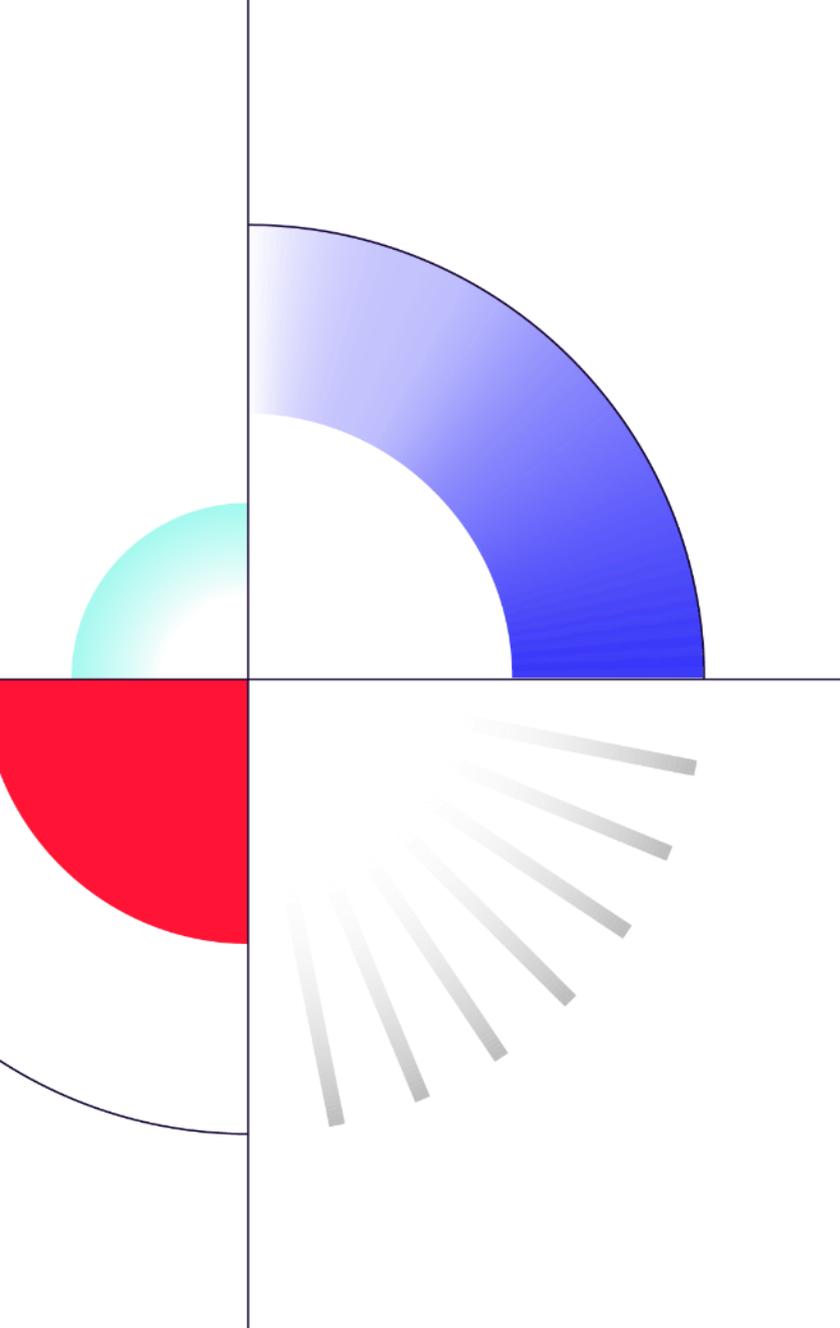
Specific case of Epsilon regarding diversification_

Connecting the dots

- > A chat exchange between a scammer and a post publisher helped us identify his Telegram pseudonym.
- > The pseudonyms chatnoir (@dovuco) and La Debrouille (@ladebrouille0) are connected by these posts, though we don't know if they are the same person.
- > We believe an administrator or a member of the Epsilon group is involved in drug trafficking in Grenobles, France, and may be advertising these activities.



*Reopening today
Delivery through all Grenoble
60€/gram
Very good uncut product

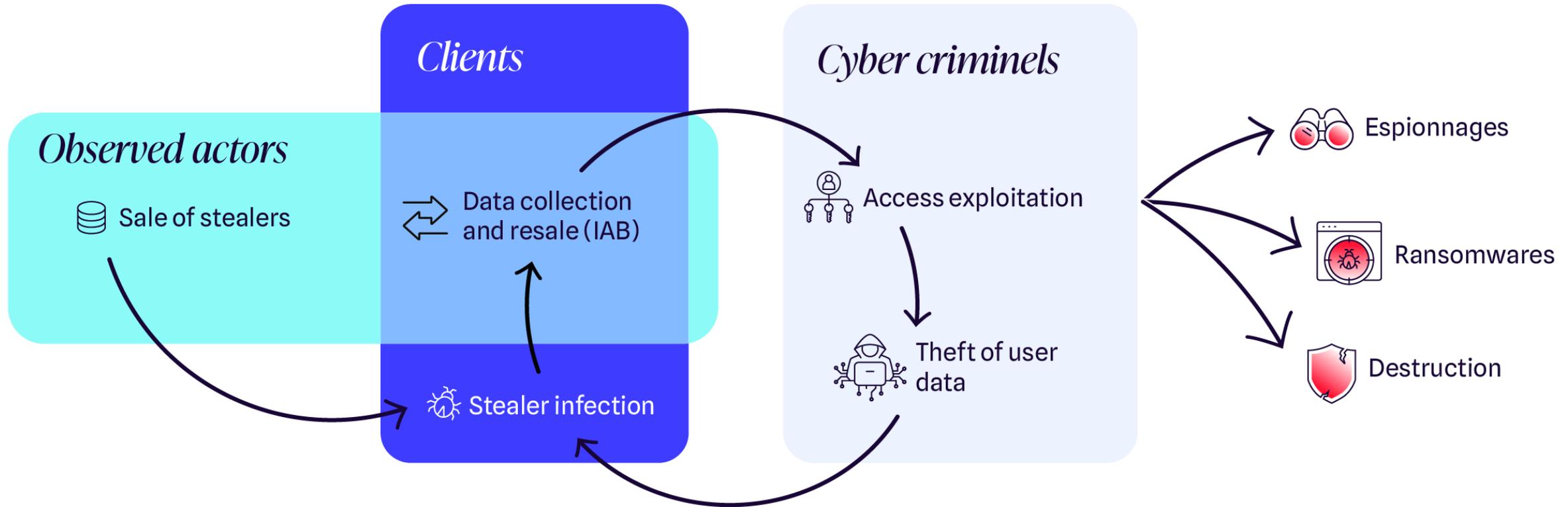


*Why watching and
understanding them
matters_*

The underestimated power of these groups_

- > Risk to companies:
While these groups see their activities as a "game" they create substantial risks for companies.
- > Vulnerability through employees:
The main threat comes from employees who reuse personal and professional passwords
- > "Combolist" are a threat:
These groups compile "combolist" (lists of usernames and passwords) from various breaches, which are then sold to more sophisticated attackers.
- > Gateway to more serious attacks
- > Importance of monitoring:
Keep an eye on these seemingly minor actors as part of an effective cybersecurity strategy.

The underestimated power of these groups_



Key takeaways and conclusion_

We mapped out the French Stealer ecosystem, revealing the structure and connections between the different French-speaking groups..

- > Technical insights on stealers:
Learn how these stealers operate
- > Profiling threat actors:
By analyzing cybercriminal interactions and OpSec errors, we can identify and disrupt these groups and better understand who they really are.
- > Epsilon group case study:
See how one group's activities extend into illicit fields like drug trafficking, underscoring the broader impact of these operations

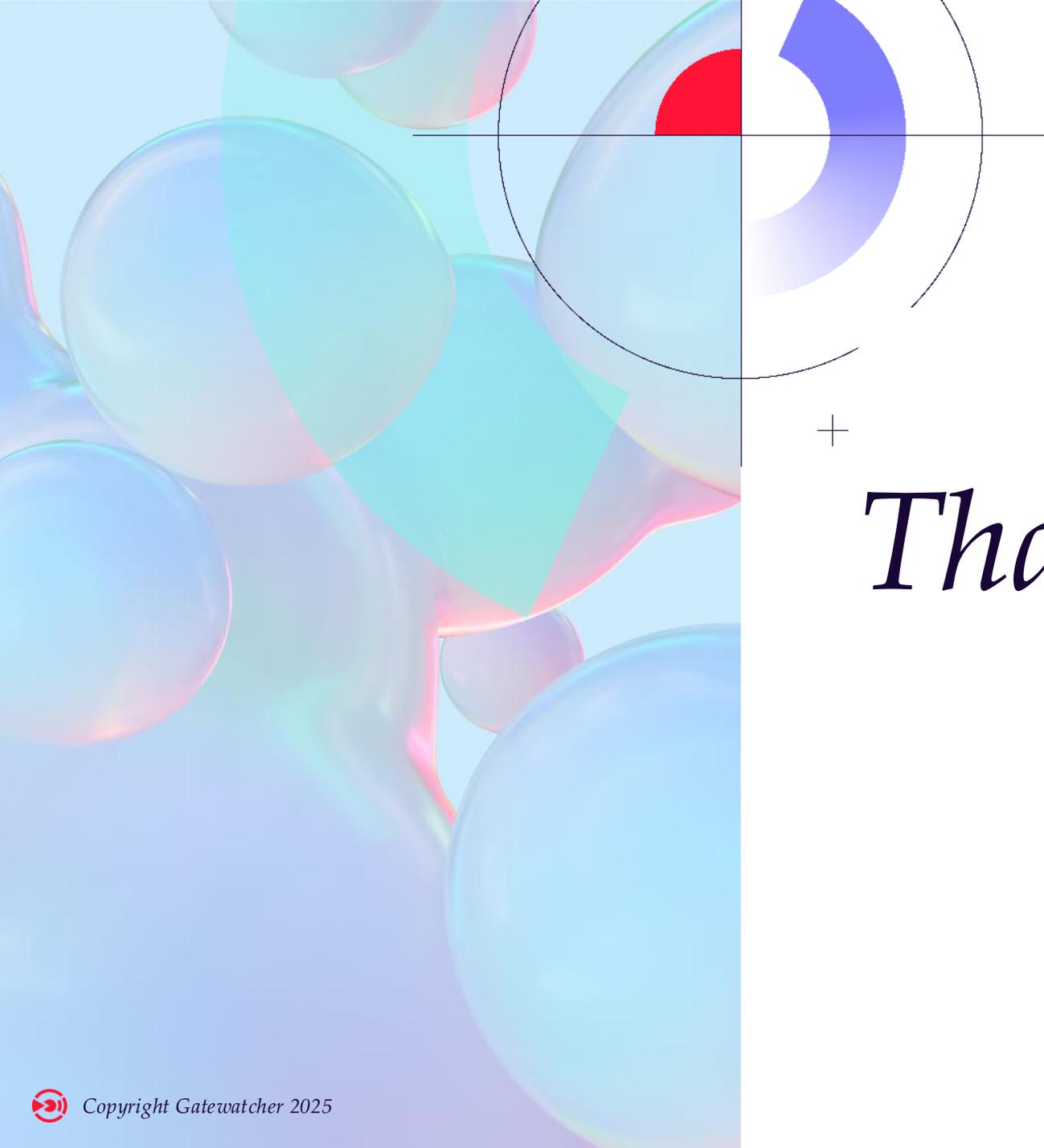
This group still needs to be monitored sometime and authorities must explain by sensibilization that *these activities are illegal with big risks and are not a game!*

Sources_

[Stealing with flair: French young actors unveiled](#)

[Nova Stealer, The Malware Made in France](#)

[MaaS appeal: an infostealer rises from the ashes](#)



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Thank you