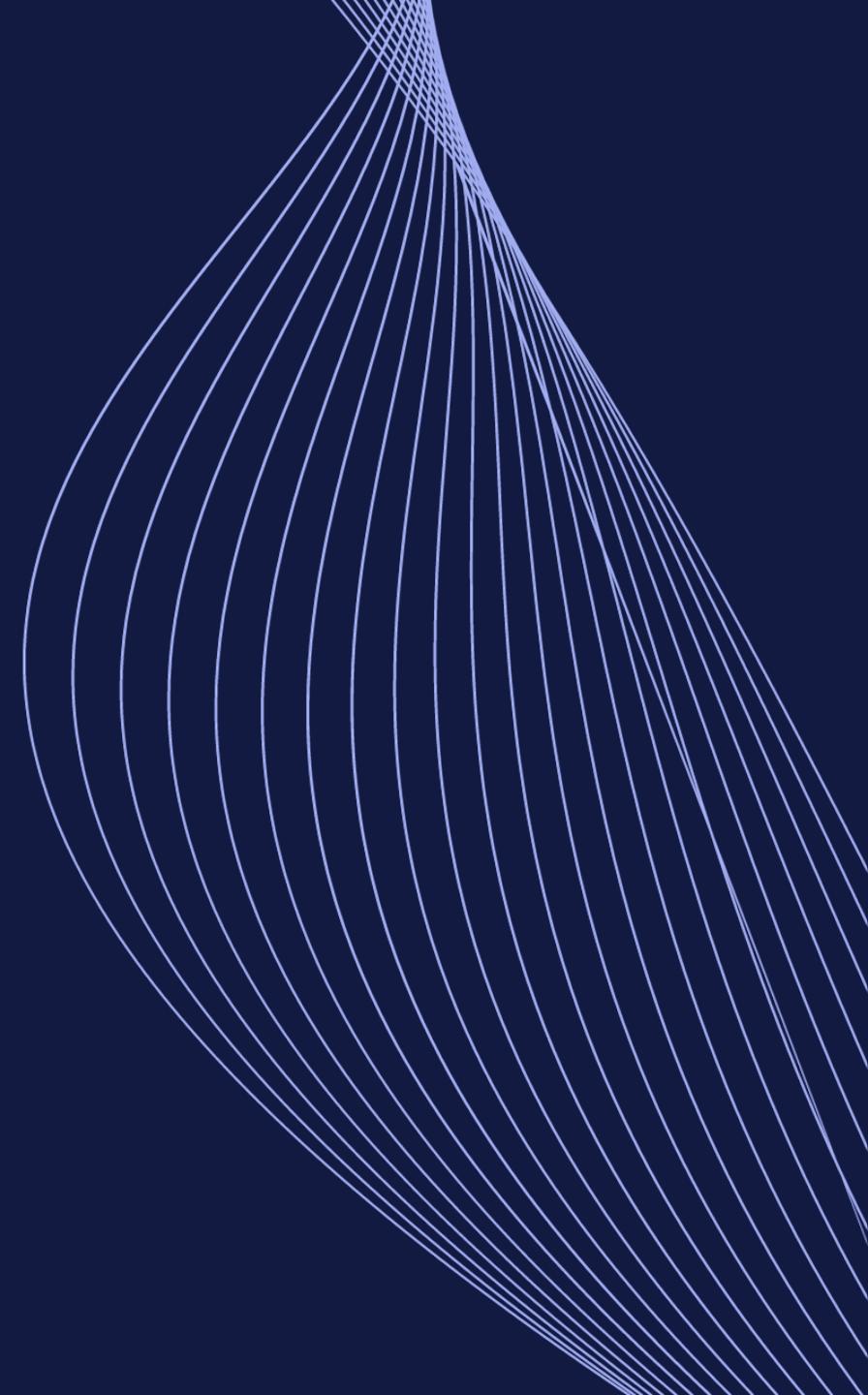




The Ouroboros of Cybercrime

Witnessing threat actors go from Pwn to Pwn'd.



About us



Cyber Threat Intelligence Researcher

Offensive Security Background

**British gentleman pursuing Professor Moriarty's career path
(legally)**



Cyber Threat Intelligence Researcher

Mathematics and Criminology Background

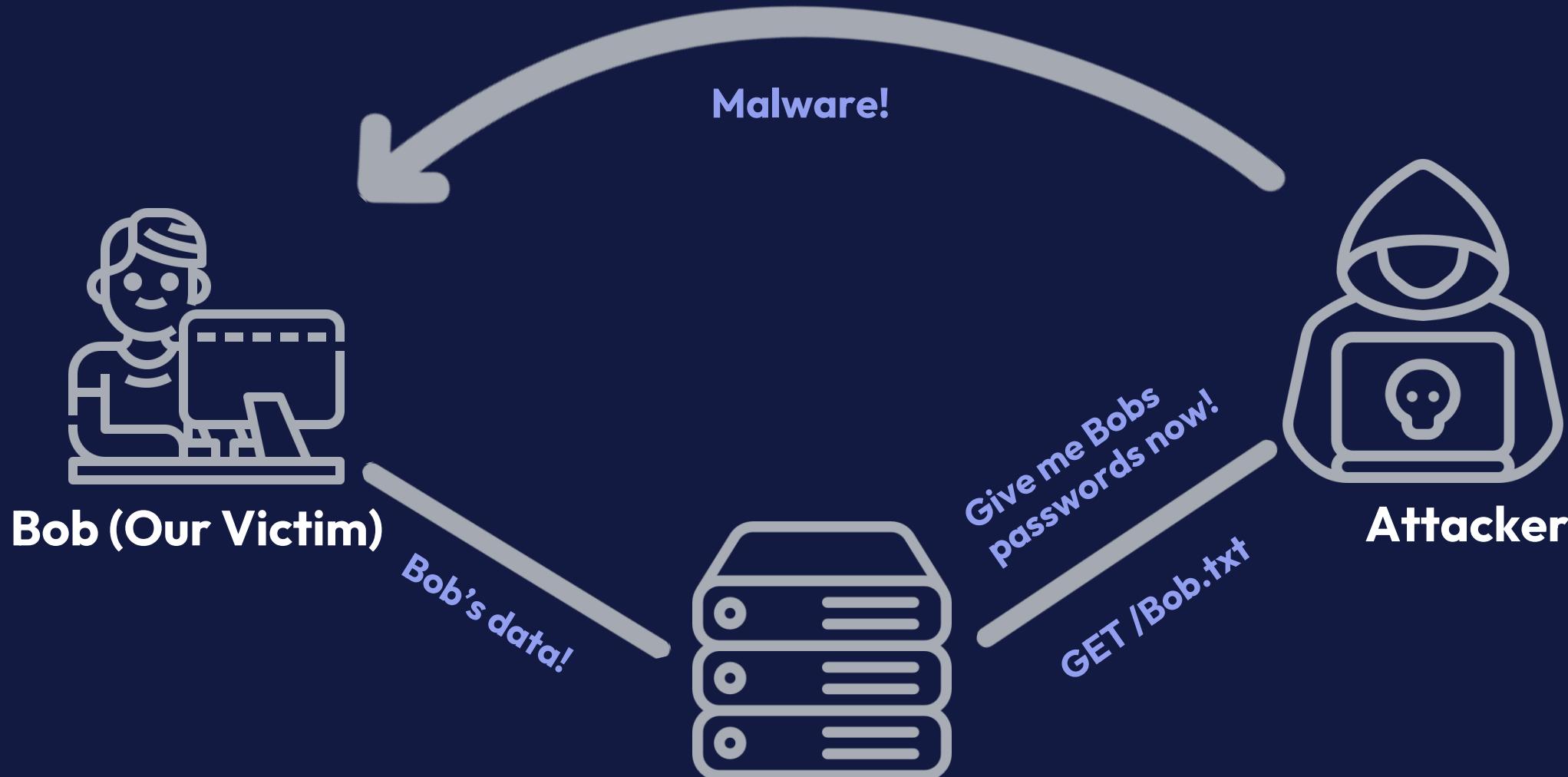
**French Lady on a mission to uphold Sherlock Holmes's legacy
(minus the hat)**

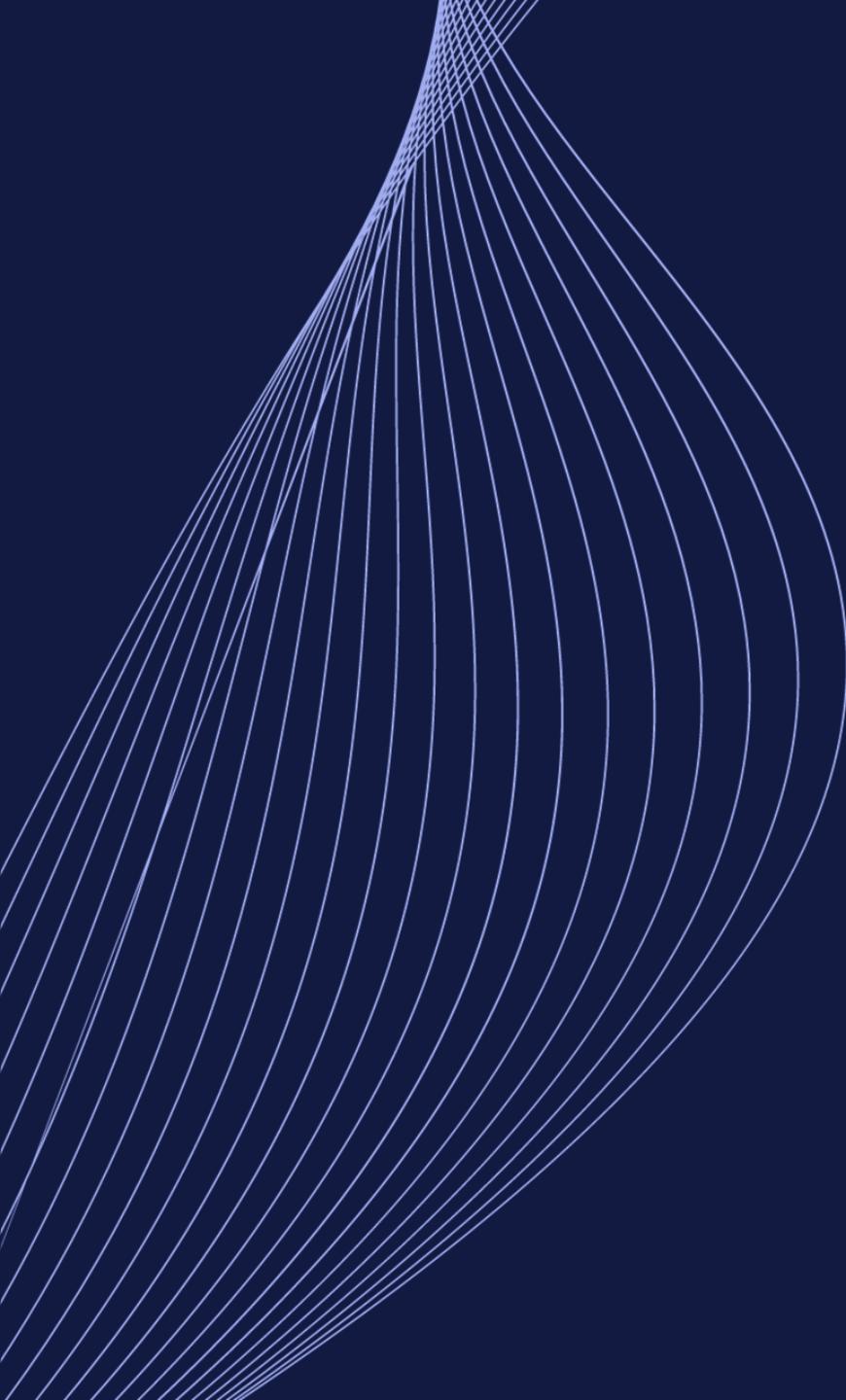
*What if C2 operators also fell victim to their own skim :
the biter bit.*

Command & Control (C2) Servers



Info stealers & C2s: The Exfiltration Link





DATA

Data

4,258 Stealer Logs



25% cross-forum logs



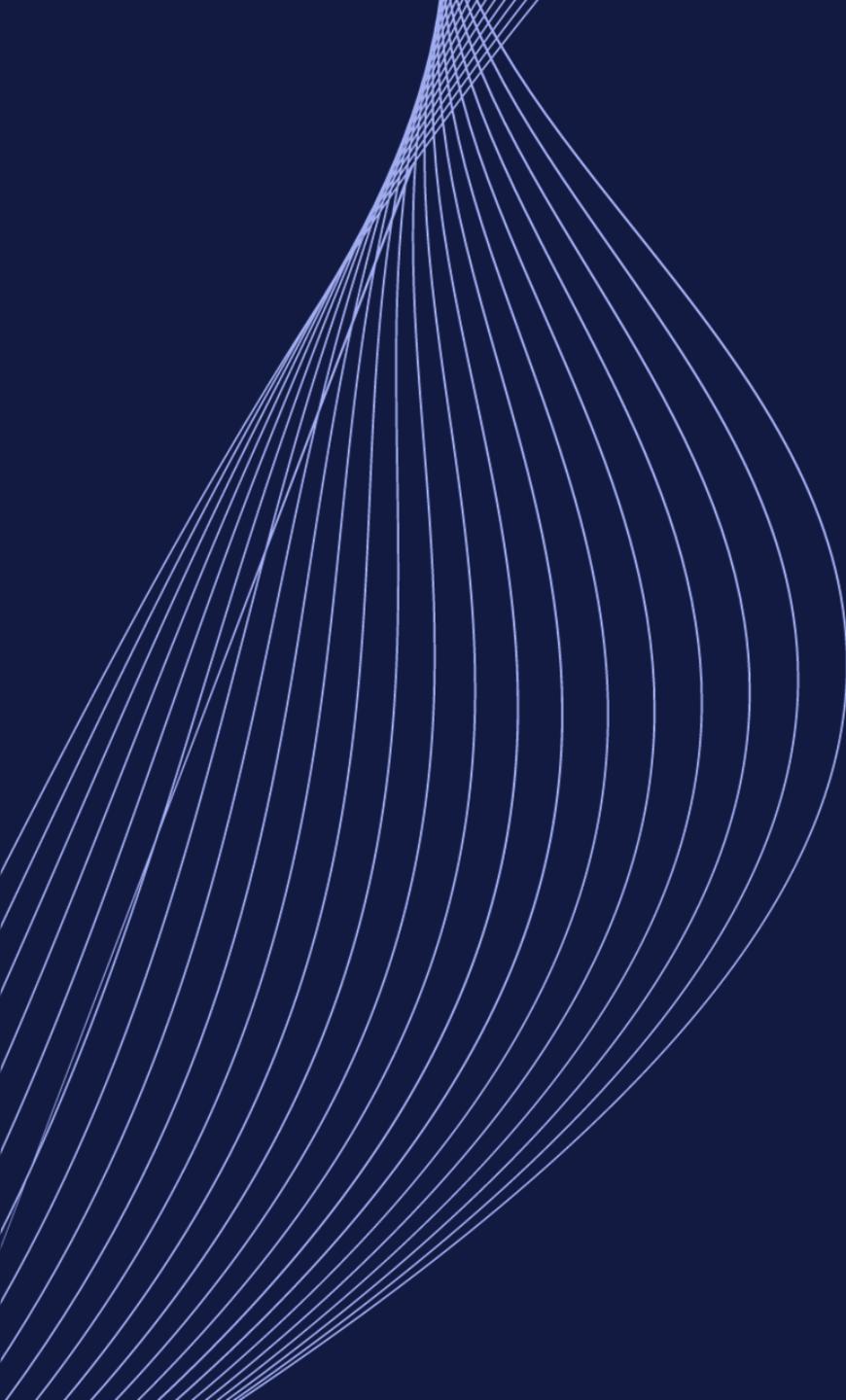
C2 Detection with Viriback and URLScan



11,000 C2 Hostnames



8,049 C2 Hostnames



The BITERS BIT
From thousands to few.

The bitters bit

1C2 IP



1C2 IP



```
https://my-odin.com/auth/reg
https://my-odin.com/auth/reg
https://my-odin.com/auth/reg
https://www.nulled.to
https://www.nulled.to/index.php
https://www.nulled.to/topic/260331
https://www.nulled.to/index.php
https://nulledbb.com/member.php
https://forum.exploit.in/register/
https://russianmarket.to/login
```

1C2 IP

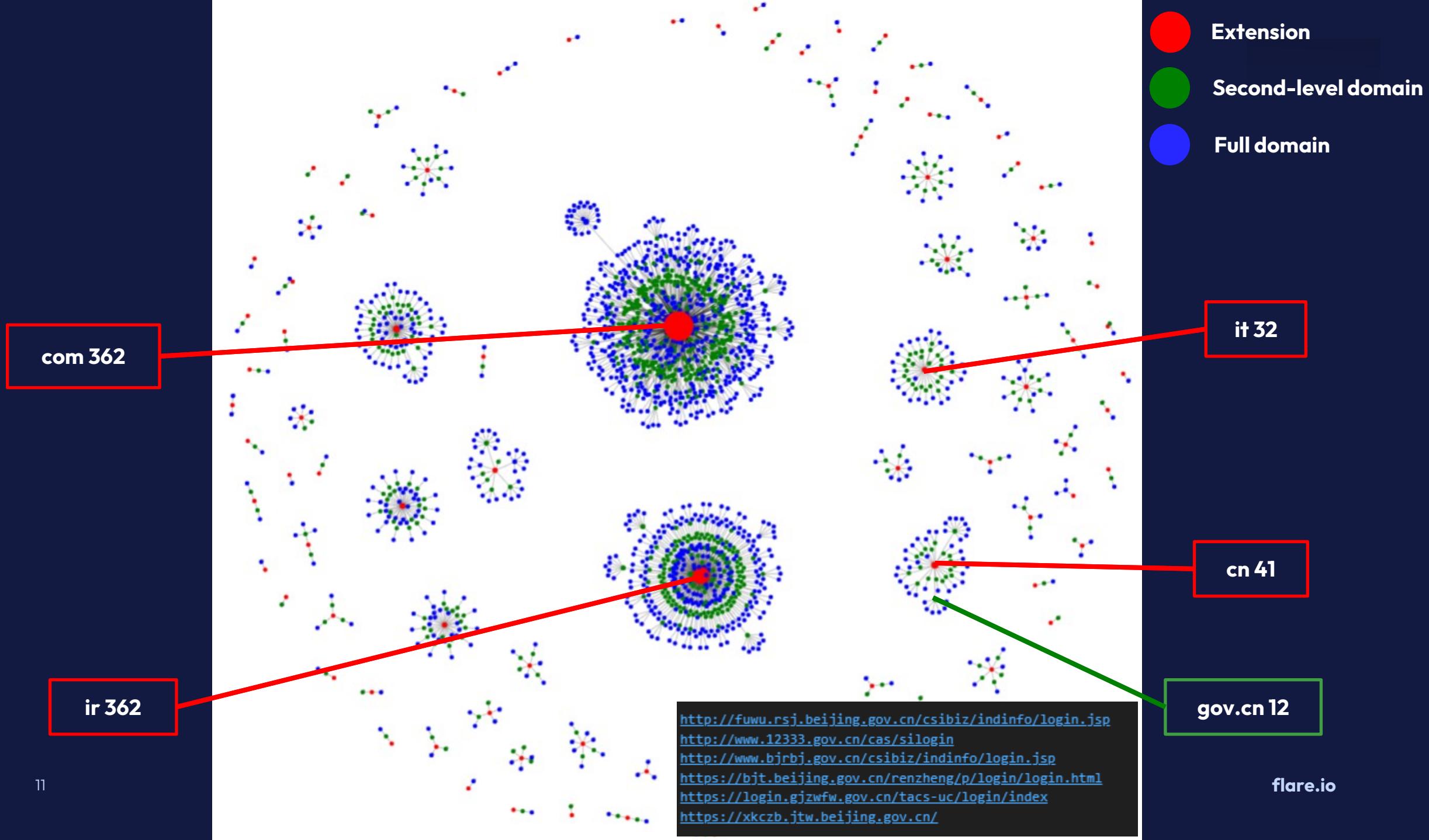


3 C2 IPs



1C2 IP





The bitters bit



<https://beyond-dev.ir/register/>
<http://seniordevs.ir/>



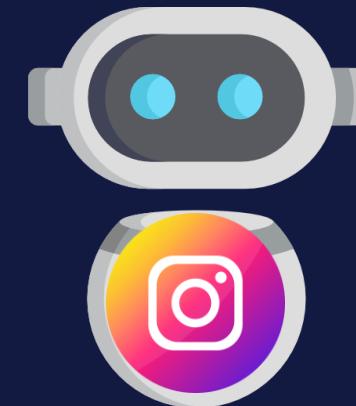
<https://protrader.vantagemarkets.com/>

<https://worthstart-trading.com/idxef82.php>



<https://my-odin.com/auth/reg>
<https://www.nulled.to>

'<https://btc-casino.io/>',
'<https://btcclicks.com>',



<http://instagrambotmanager.ir/auth/login>
<http://instagrambotmanager.ir/users/update>

BEGINNING OF SUSPICIONS

Beginning of Suspicions



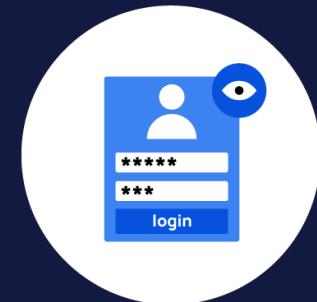
>100 credentials

Beginning of Suspicions

```
[ 'http://49.12.226.201/1dd31ab602153676/auth.php',
  'http://5.42.64.2/6ffb12d22cdea840/auth.php',
  'http://5.42.66.25/53b4bb7541555c9d/auth.php',
  'http://65.108.48.89/f5afe5d538bbefdd/auth.php',
  'http://83.217.11.0/53b4bb7541555c9d/auth.php',
  'http://83.217.11.40:3122/login',
  'http://94.142.138.121/d5e67564029c6f11/auth.php',
  'http://exit-slightly.com/2a31b91cbc7df29c/auth.php',
  'http://global147.com/c35e91cb41e7285c/auth.php',
  'http://weak-sar.com/56019c142bf1b2d6/auth.php',
  'https://account.proton.me/login',
  'https://account.proton.me/mail/signup',
  'https://albanybandung.com:2083/',
  'https://avcheck.net/login',
  'https://bill.pq.hosting/billmgr',
  'https://coockie.pro/login/login',
  'https://discord.com/reset',
  'https://faceless.cc/login',
  'https://gstatic-service.io/login',
  'https://installbank.com/',
  'https://login.360installer.com/register',
  'https://lumar-show.com/',
  'https://m.installbank.com/',
  'https://my-odin.com/auth/reg',
  'https://my.lethost.co/account/login',
  'https://ppcash.net/analytics/register',
  'https://raccoon.biz/',
  'https://raccoon.biz/logs',
  'https://raccoon.biz/reg',
  'https://scanner.to/login',
  'https://stealer.app/',
  'https://vision.stark-industries.solutions/auth/login',
  'https://wallet.ton.org/',
  'https://www.dropbox.com/register',
  'https://xss.is/lost-password/286258/confirm',
  'https://zelenka.guru/login/login' ]
```



[welcome back]



~30 credentials



THE MALWARE MAESTRO

The Malware Maestro

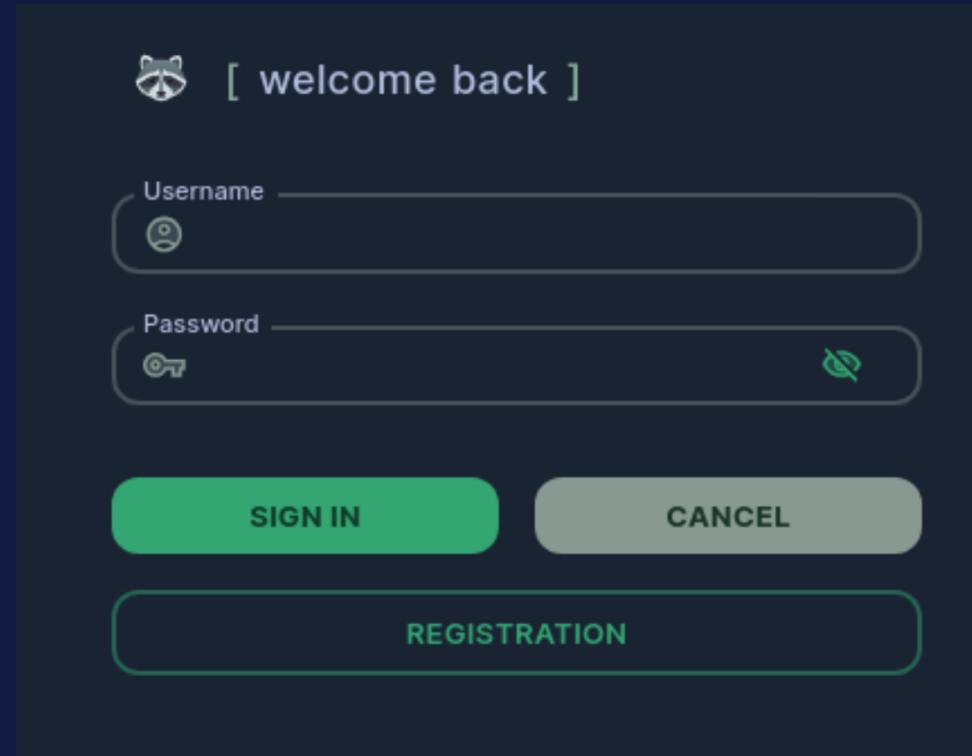
 **Raccoon[.]biz**

 **Faceless[.]cc**

 **Scanner[.]to**

 **Stealer[.]app**

Raccoon[.]biz/logs
Raccoon[.]biz/reg



The Malware Maestro

Username	Password
admin	HW4*****
[UNKNOWN]	adm*****

Mystic – Multi-Functional Malware

PrivateLoader – Malware Loader

Asuka - Trojan

Hashed Victim

```
'http://45.140.147.104/login',
'http://49.12.226.201/1dd31ab602153676/auth.php',
'http://5.42.64.2/6ffb12d22cdea840/auth.php',
'http://5.42.66.25/53b4bb7541555c9d/auth.php',
'http://65.108.48.89/f5afe5d538bbeffdd/auth.php',
'http://83.217.11.0/53b4bb7541555c9d/auth.php',
'http://83.217.11.40:3122/login',
'http://94.142.138.121/d5e67564029c6f11/auth.php',
'http://exit-slightly.com/2a31b91cbc7df29c/auth.php',
'http://global147.com/c35e91cb41e7285c/auth.php',
'http://weak-sar.com/56019c142bf1b2d6/auth.php',
```



THE MAESTRO'S SYMPHONY

QUADRUPLE THREAT.

flare

The Malware's Symphony



PrivateLoader



Mystic



Raccoon



Asuka

Movement I – Initial Infection



PrivateLoader

Malware Loader



Deliver Malicious Payloads





PrivateLoader

Delivers Payloads



Mystic



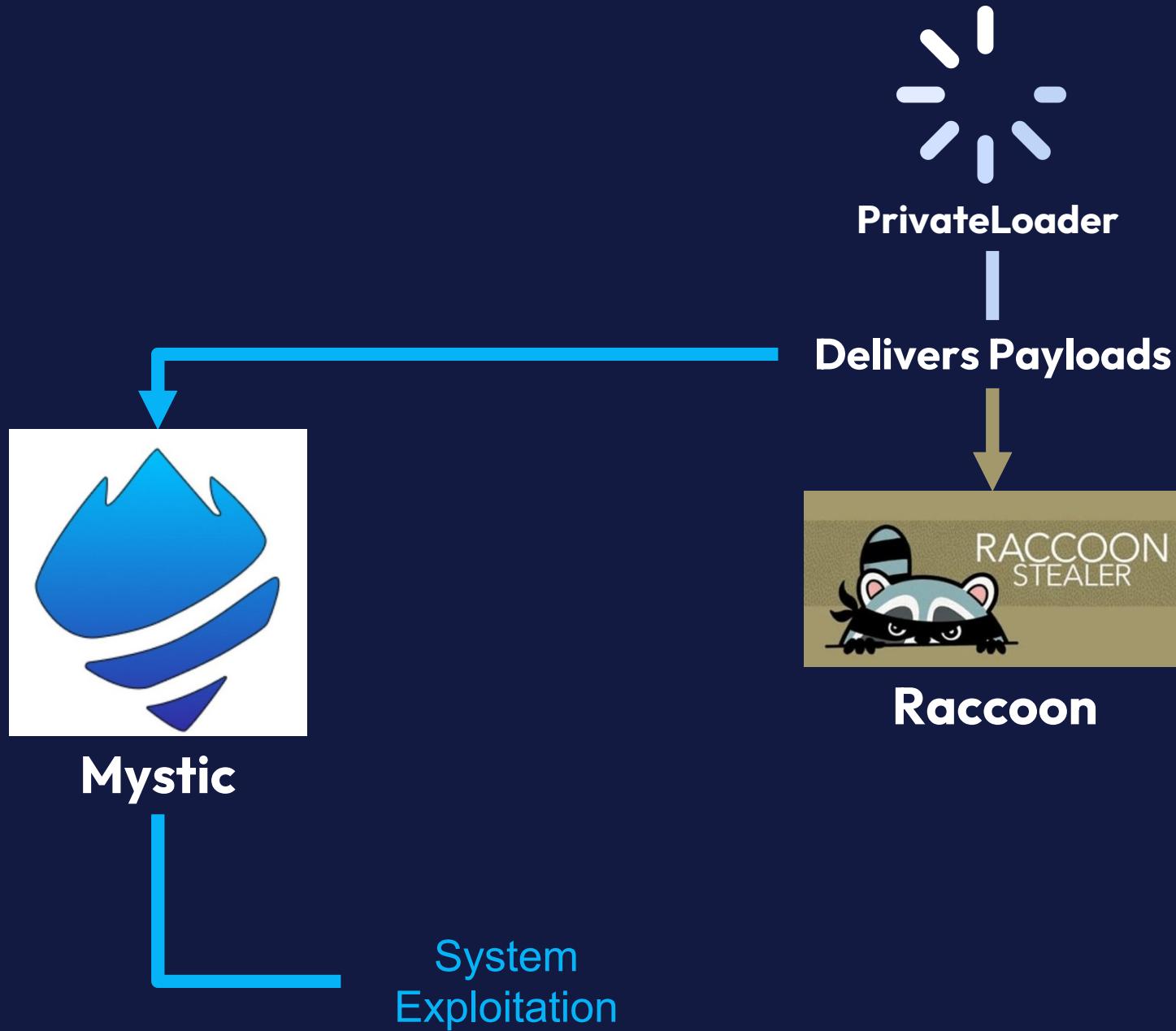
Movement II – System Exploitation



Mystic

Multifunctional Malware

- Stealing data**
- Keylogging**
- Persistence**



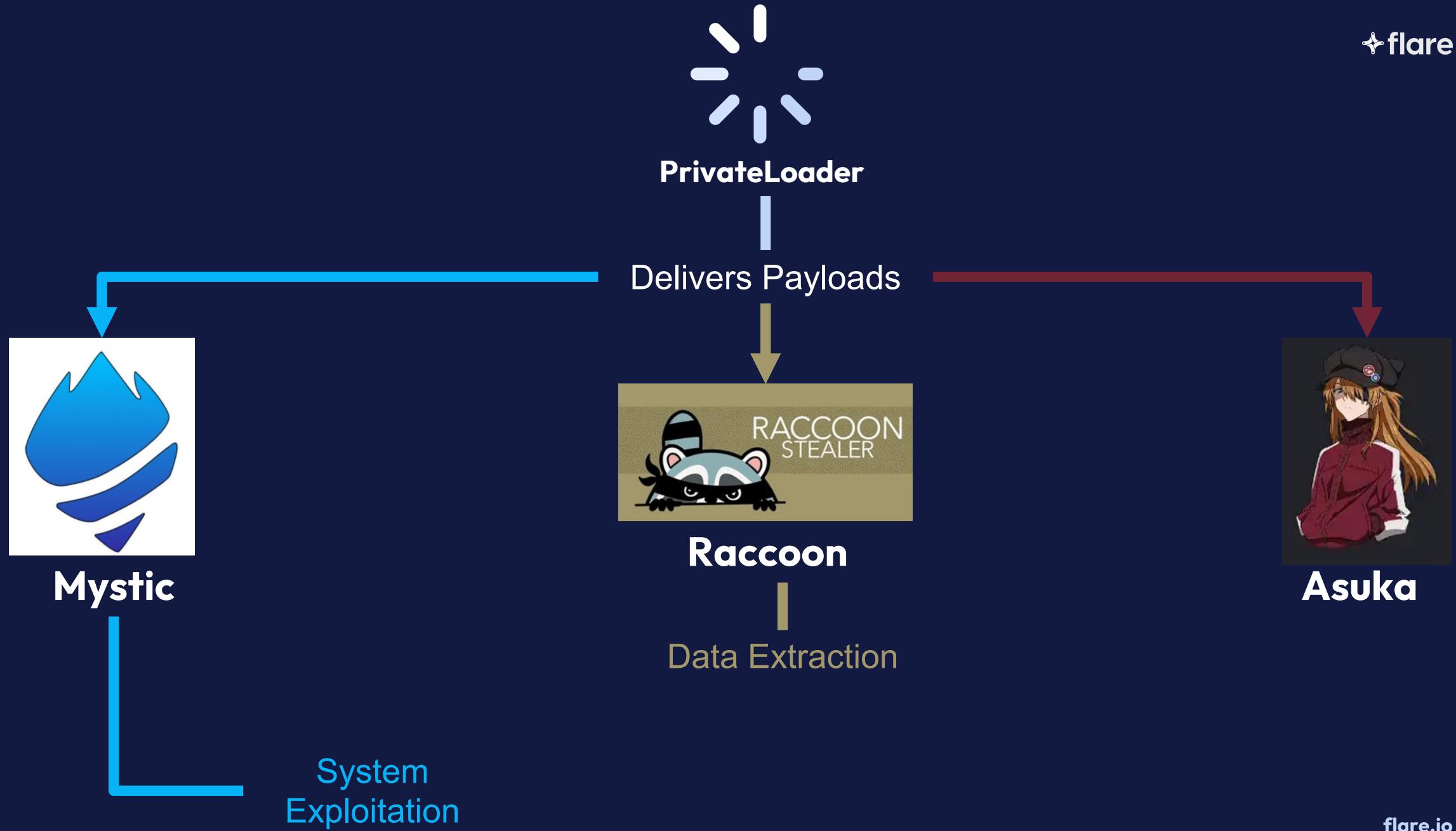
Movement III – Data Extraction



Raccoon

Infostealer

- Loggin Credentials**
- Cookies**
- Wallets**



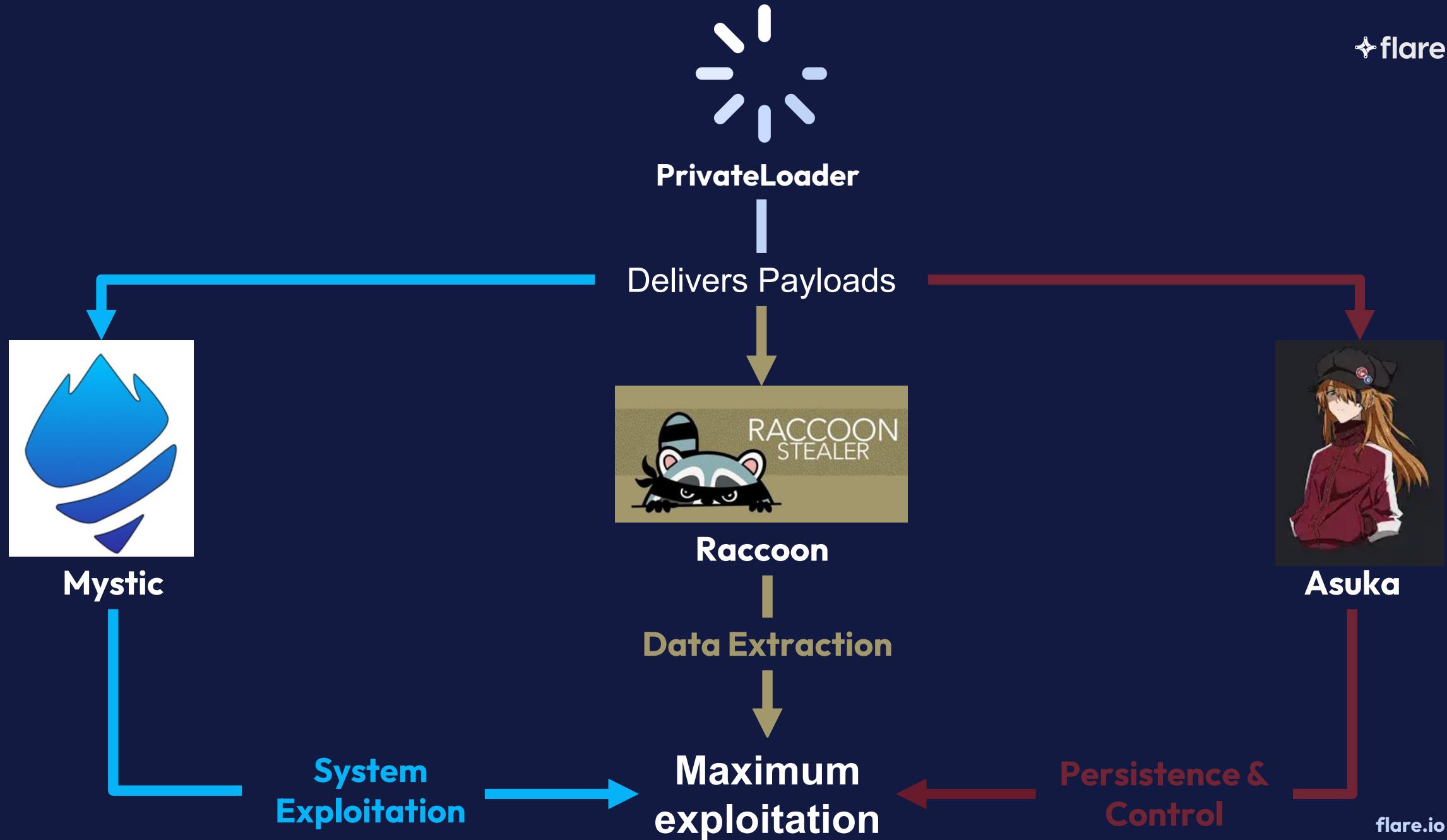
Movement IV – Persistence



Asuka

Trojan

- Maintain Control**
- Persistent Backdoors**





FROM LOGS TO ACTION: Practical Applications in Security





Stuart Beck
Cyber Threat Intelligence Researcher

Estelle Ruellan
Cyber Threat Intelligence Researcher