SICKOS 1.1

```
Ubuntu 12.04.4 LTS SickOs tty1
SickOs login:
```

GETTING STARTED

To download sickos 1, click on the link given below :-

https://www.vulnhub.com/entry/sickos-11,132/



This writeup documents the steps that successfully led to pwnage of the machine. It does not include the dead-end steps encountered during the process (which were numerous). This is just my take on pwning the machine and you are welcome to choose a different path.

RECONNAISSANCE

I found the target IP by scanning the network using **nmap**

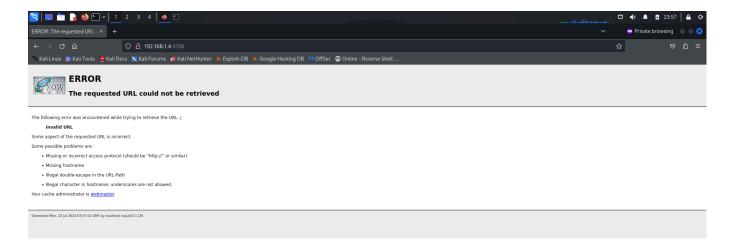
Then I performed an **nmap** aggressive scan on the target.

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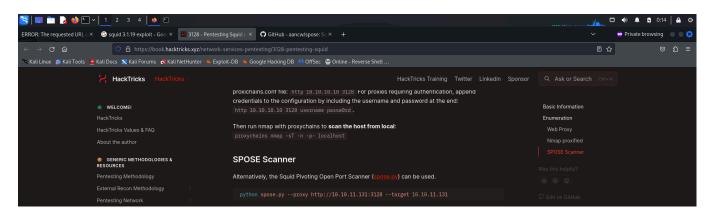
INITIAL ACCESS

I accessed the web server on the open port.



I googled the **squid** version and found this **hacktricks** article:

https://book.hacktricks.xyz/network-services-pentesting/3128-pentesting-squid



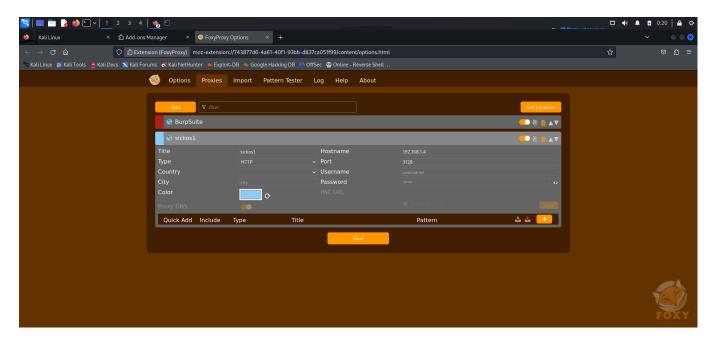
Hence, I downloaded the **python** script: https://github.com/aancw/spose

I then ran the script and found open ports.

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                 i)-[~/ctf/sickos1]
     git clone https://github.com/aancw/spose.git
Cloning into 'spose'...
remote: Enumerating objects: 11, done.
remote: Total 11 (delta 0), reused 0 (delta 0), pack-reused 11
Receiving objects: 100% (11/11), done.
             kali)-[~/ctf/sickos1]
 _# cd spose
    (root@ kali )-[~/ctf/sickos1/spose]
ls
  _init__.py LICENSE README.md spose.py url_request.py
             kali)-[~/ctf/sickos1/spose]
python spose.py --proxy http://192.168.1.4:3128 --target 192.168.1.4 Using proxy address http://192.168.1.4:3128
192.168.1.4 22 seems OPEN
192.168.1.4 80 seems OPEN
```

Then I used **curl** to access port 80.

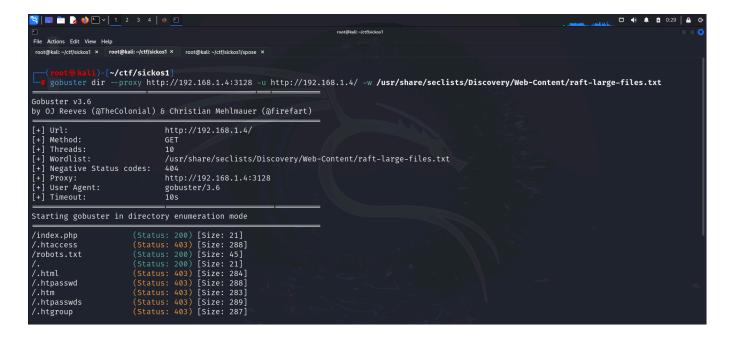
I then set the proxy on my browser and accessed it through the browser.



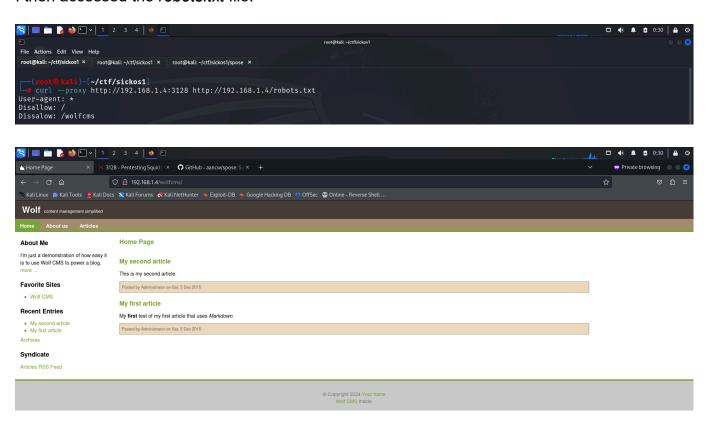


BLEHHH!!!

I then used **gobuster** to find other directories.



I then accessed the robots.txt file.



I did not find anything interesting from this page, so I ran a **nikto** scan on the target.

The scan identified a **Shellshock** vulnerability on the server.

(i) About Shellshock

Shellshock (also known as Bashdoor) is a security bug in the Bash (Bourne Again Shell) command-line shell, widely used in Unix-based systems such as Linux and macOS. Discovered in September 2014, Shellshock allows attackers to execute arbitrary commands on vulnerable systems, potentially taking full control of the affected systems.

I read about this vulnerability and its exploitation here: https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/cgi

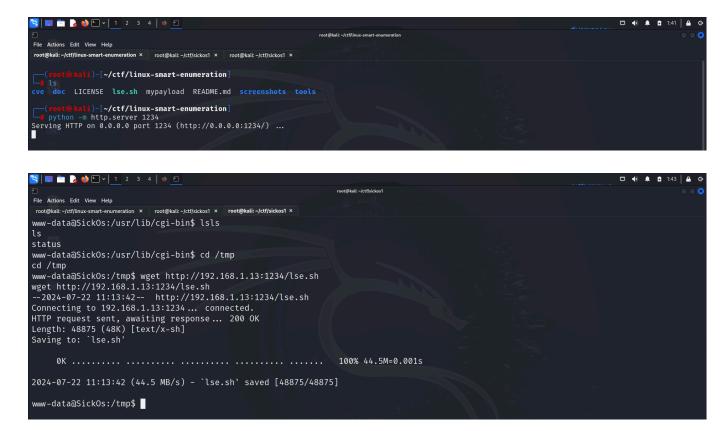
Hence, I got a reverse shell by executing a malicious command with **Shellshock** and **curl**.



Hence I got initial access on the target.

PRIVILEGE ESCALATION

I downloaded the linux smart enumeration script.



Finally I ran this and found an interesting python file

The file just contained some print statements.

```
| Total | Tota
```

I modified this file and added a code that would give me a reverse shell.

```
File Actions Edit View Help
root@kali:-/ctt/sickos1 × root@kali:-/ctt/
```



Hence, I gained root access and captured the flag from the /root directory.

```
File Actions Edit View Help
root@Nali:-/ctf/sickos1 × root@Nali:-/ctf/
```

CLOSURE

Here's a summary of how I obtained the root flag:

- I used the squid proxy to connect to the target web server.
- Upon accessing the target, I performed a nikto scan and identified a shellshock vulnerability in one of the paths.
- I exploited this vulnerability to execute a bash script and obtain a reverse shell.
- I then ran the **linux smart enumeration** script to identify misconfigurations for privilege escalation.
- I modified the Python script that was executed via crons with root privileges.
- With the reverse shell as the **root** user, I captured the flag from the /root directory.



That's it from my side, until next time :) Happy Hacking!