Enumeration

NMAP

The initial scan did not produce too much. Time to run a more direct scan on the only ports that are open. 21, 22, and 80. Noticed the host prevents ICMP echo requests.

FTP

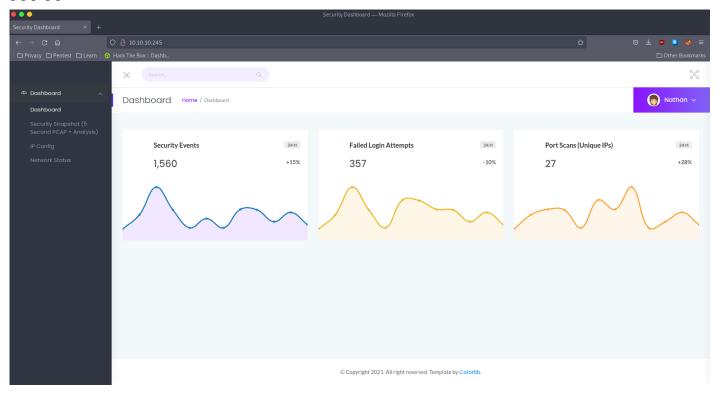
From the initial scan we see that FTP is open on this host. Let us try connecting with anonymous.

```
ftp 10.10.10.245
Connected to 10.10.10.245.
220 (vsFTPd 3.0.3)
Name (10.10.10.245:schwaiger): anonymous
```

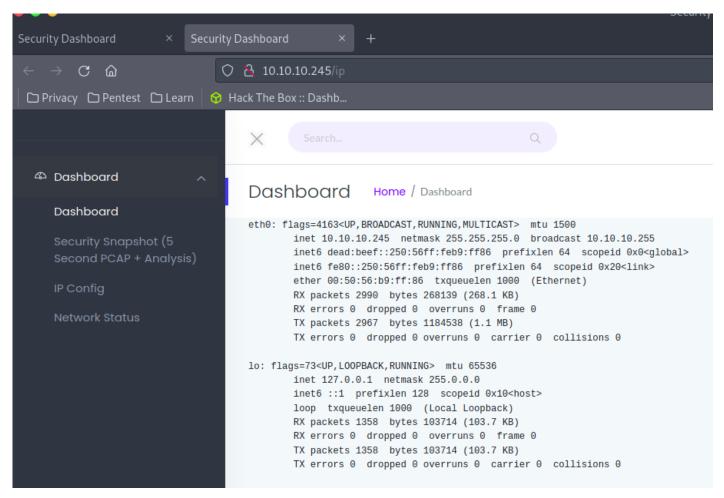
```
331 Please specify the password.
Password:
530 Login incorrect.
Login failed.
```

No luck there. Lets check out port 80 which is hosting a webserver.

HTTP



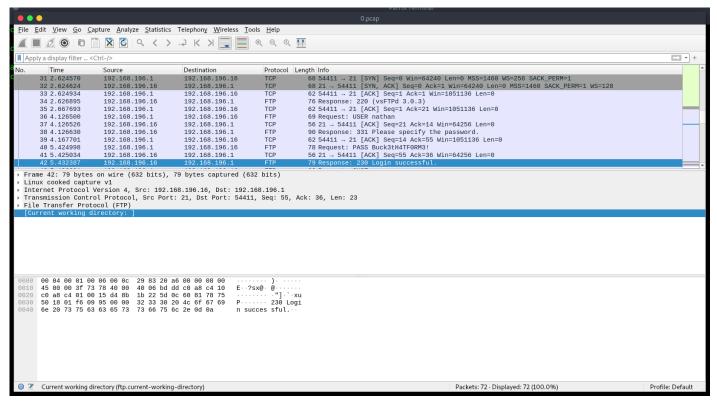
We see when visiting the website that we are log into a user '*Nathan*' and according to our nmap it is running Gunicorn. When we visit **IP Config**, we can see the output of ifconfig.



Also, when we go to **Network Status** we can see the output of netstat. However, when we visit Securit Snapshot page we notice there is a possiblility of accessing other pages with data by changing the '1'.



When changing the **data/ID** to 2 we get redirected back to the homepage. However, when we set the ID to 0 we get a similar page to the link mentioned above. Let's download the file and inspect it.



The FTP USER and PASS are leaked in the Wireshark file! Maybe we can attempt to ssh with these credentials?

SSH

And we are in and easily grab the *user.txt* flag! Let us start off with attempting to see what sudo privileges our user nathan has since we have his password.

```
nathan@cap:~$ sudo -l
[sudo] password for nathan:
Sorry, user nathan may not run sudo on cap.
```

No luck... Standing up a python webserver and move over lineeas.sh to do some Privilege Escalation.

linPEAS

linPEAS repot gives back that /ur/bin/python3.8 = cap_setuid,cap_net_bind_service+ep gives us a 99% chance of escalating to root. With further research you can abuse this to run python3 to set its current setuid to 0 giving you the power of root!

```
nathan@cap:~$ /usr/bin/python3.8 -c 'import
os;os.setuid(0);os.system("/bin/bash")'
root@cap:~#
```

Just like that we are root and can now claim the *root.txt* flag.

```
root@cap:~# cd /root
root@cap:/root# ls
root.txt snap
root@cap:/root# wc -c root.txt
33 root.txt
```