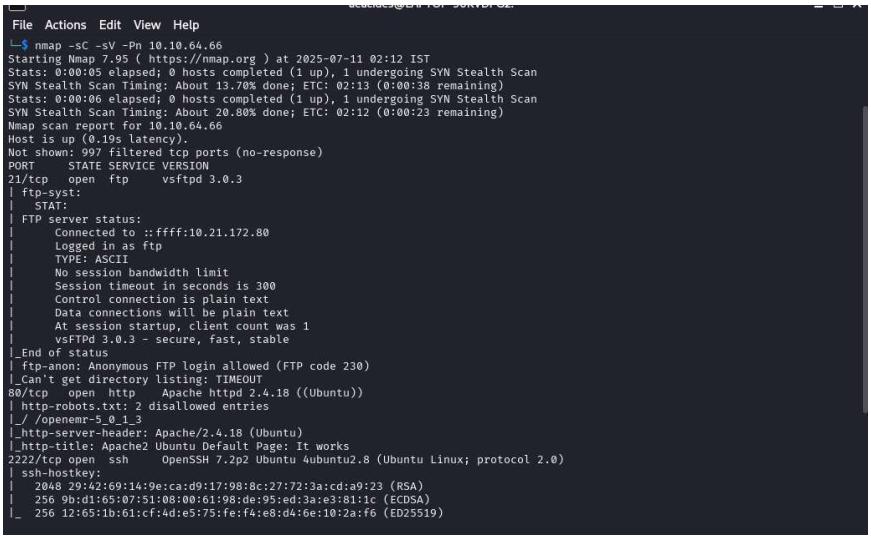
# SIMPLE CTF WRITE-UP

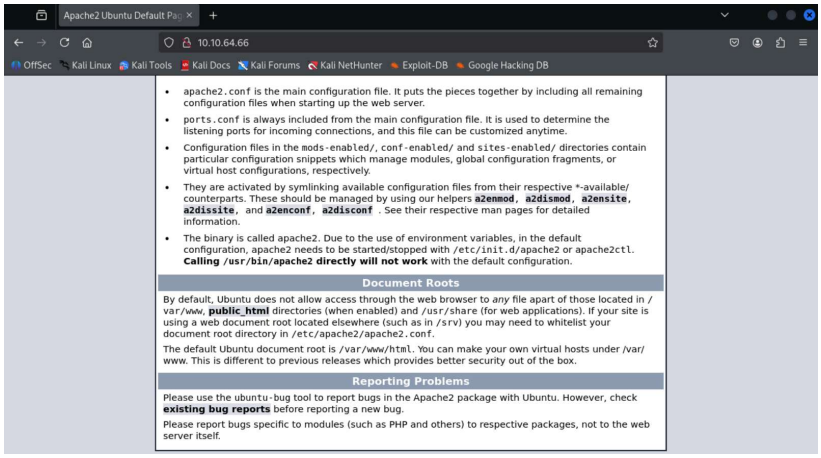
## Step 1 Basic enumeration :

First I performed basic port scanning using nmap and found that ports 21 ftp,80 http and 2222 ssh are open.



```
File  Actions  Edit  View  Help
└─$ nmap -sC -sV -Pn 10.10.64.66
Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-11 02:12 IST
Stats: 0:00:05 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 13.70% done; ETC: 02:13 (0:00:38 remaining)
Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 20.80% done; ETC: 02:12 (0:00:23 remaining)
Nmap scan report for 10.10.64.66
Host is up (0.19s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT     STATE SERVICE VERSION
21/tcp   open  ftp     vsftpd 3.0.3
| ftp-syst:
|   STAT:
| FTP server status:
|      Connected to ::ffff:10.21.172.80
|      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 1
|      vsFTPd 3.0.3 - secure, fast, stable
|_End of status
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_Can't get directory listing: TIMEOUT
80/tcp   open  http    Apache httpd 2.4.18 ((Ubuntu))
| http-robots.txt: 2 disallowed entries
|_/ /openemr-5_0_1_3
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
2222/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 29:42:69:14:9e:ca:d9:17:98:8c:27:72:3a:cd:a9:23 (RSA)
|   256 9b:d1:65:07:51:08:00:61:98:de:95:ed:3a:e3:81:1c (ECDSA)
|_  256 12:65:1b:61:cf:4d:e5:75:fe:f4:e8:d4:6e:10:2a:f6 (ED25519)
```

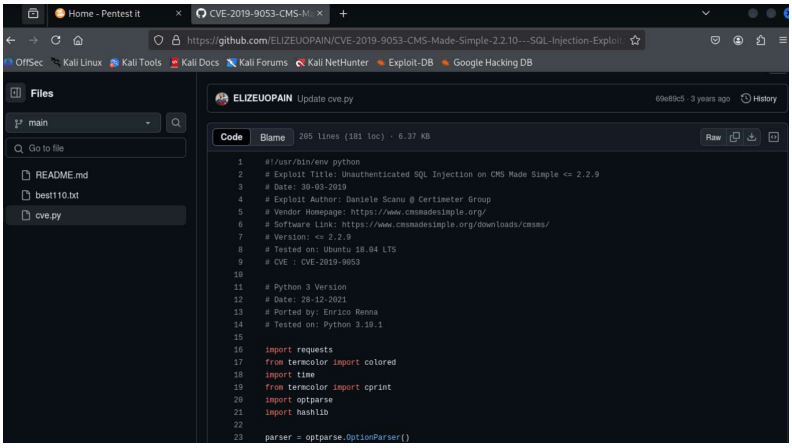
Then I checked the site to see if there's something there. Couldn't find anything in the page so I used gobuster to find any directories.



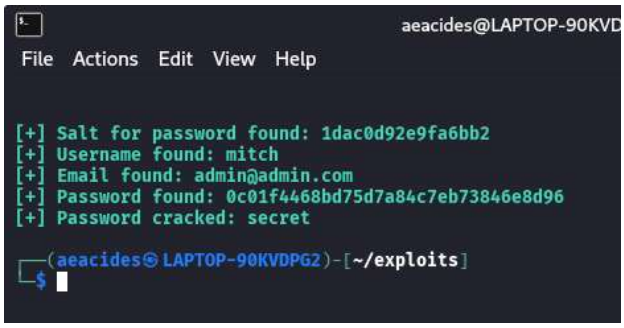

I found /simple and /server-status. /server-status denied access and /simple took us to a simple cms of version 2.2.8.

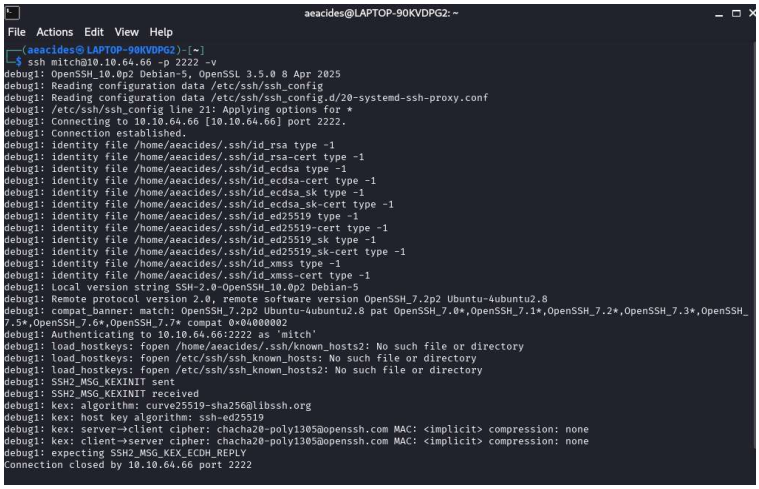
## Step 2 Exploiting :

I put the version in google and found that there's a cve-2019-9053 vulnerability in the site. so I searched for and found a python script to exploit it in github.



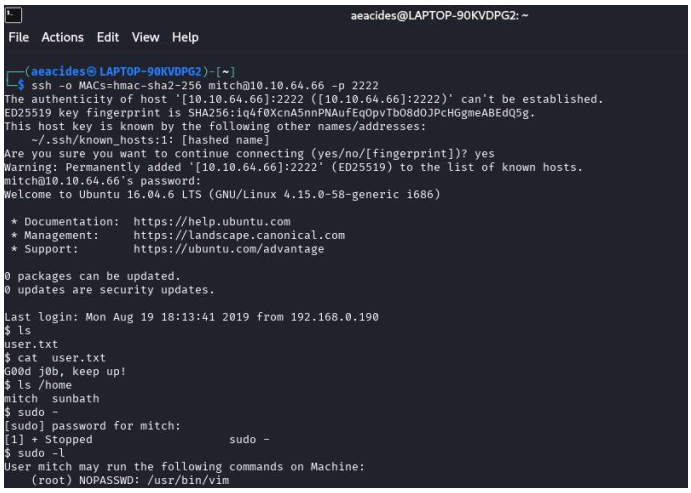

I got the script and ran it to obtain the login credentials for user mitch and used it to connect to the ssh in port 2222 i found earlier.



## Step 3 Getting Flag 1 :

As you can see in the image above, I faced some issue when running ssh so I googled the issue and found there was some kind of issue with the mac address. so I used `-o MACs=hmac-sha2-256` option to pass ssh configuration.




I got in this time. I found a text file user.txt in the user mitch's folder containing the first flag. Next I checked the /home directory for other users and found a user sunbath.

I used `sudo -l` to find the commands mitch can perform and found i can use vim.

### Step 4 Getting root access :

I used gtfobins to find how to get root privilege using vim and found a payload and ran it. After verifying that i got root access, i checked the /root directory to find root.txt file there and found the final key, thus finishing my first ctf.