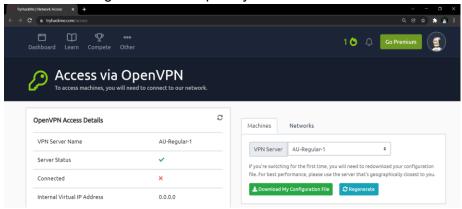
## **Penetration of Headless**

## Step 1: Connect to open vpn using configuration file

Download configuration file."https://tryhackme.com/access"



- Fire up Kali Terminal.
- Move to the directory in which {filename}.ovpn is Downloaded.
- Use cmd ~ sudo openypn Filename.ovpn

```
File Actions Edit View Help

(kali@kali]-[~]

(cd Downloads

[kali@kali]-[~]

(cd Downloads

[kali@kali]-[~/Downloads]

(kali@kali)-[~/Downloads]

(kali@kal
```

The Openvpn is connected successfully.

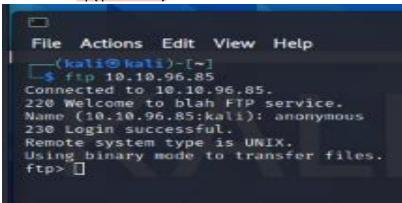
**Step 2**: Start enumerating machines by simple nmap scan considering all Ports.

Use cmd ~ nmap{ip address}

```
(kali@ kali)-[~]
5 nmap 10.10.96.85
Starting Nmap 7.91 ( https://nmap.org ) at 2022-01-13 03:01 EST
Nmap scan report for 10.10.96.85
Host is up (0.44s latency).
Not shown: 996 closed ports
PORT STATE SERVICE
21/tcp open ftp
80/tcp open http
139/tcp open netbios-ssn
445/tcp open microsoft-ds
Nmap done: 1 IP address (1 host up) scanned in 67.89 seconds
```

**Step 3**: Since we can see from the nmap scan that the Ftp server allows anonymous login we can try to search for some files.

Use cmd ~ ftp{ipaddress}



Step 4: Remote login successful

- Use cmd ~ Is to print current working directory
- Use cmd ~ Is -la to print hidden directory
- Use cmd ~ get{filename.extension} to download files
- Use cmd ~ bye to end session

```
File Actions Edit View Help

(kali@kali)-[-]

ftp 10.10.96.85

Connected to 10.16.96.85

Z20 Welcome to blah FTP service.

Name (10.10.96.85:kali): anonymous

Z30 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp> ls

200 PORT command successful. Consider using PASV.

150 Here comes the directory listing.

drwxr-xr-x 2 ftp ftp 4096 Dec 12 00:41 11:11pm

drwxr-xr-x 2 ftp ftp 4096 Dec 11 12:25 juniper

drwxr-xr-x 2 ftp ftp 4096 Dec 11 12:25 juniper

drwxr-xr-x 2 ftp ftp 4096 Dec 12 01:11 n33l3sh

200 PORT command ox.

ftp> cd 11:11pm

250 Directory send OX.

ftp> ls

200 PORT command successful, Consider using PASV.

150 Here comes the directory listing.

150 Here comes the directory listing.

150 Here comes the directory listing.

150 Fire-Tr- 1 ftp ftp 92 Dec 12 00:09 goodiya.txt.gpg

151 Prw-r-r- 1 ftp ftp 5369 Dec 12 00:31 happiness.jpeg

200 PORT command successful. Consider using PASV.

150 Opening BIMARY mode data connection for goodiya.txt.gpg (92 bytes).

226 Transfer complete.

29 bytes received in 0.00 secs (831.8866 kB/s)

ftp> get happiness.jpeg remote: happiness.jpeg (5369 bytes).

226 Transfer complete.

290 PORT command successful. Consider using PASV.

150 Opening BIMARY mode data connection for paondiya.txt.gpg (92 bytes).

226 Transfer complete.

290 PORT command successful. Consider using PASV.

150 Opening BIMARY mode data connection for happiness.jpeg (5369 bytes).

226 Transfer complete.

250 PORT command successful. Consider using PASV.

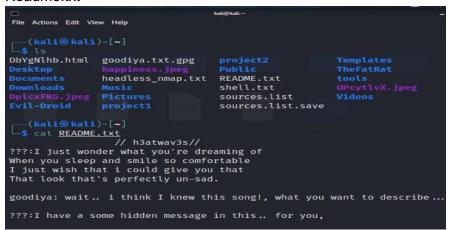
150 Opening BIMARY mode data connection for happiness.jpeg (5369 bytes).

256 Transfer complete.

250 Port command successful. Consider using PASV.

150 Opening BIMARY mode data connection for happiness.jpeg (5369 bytes).
```

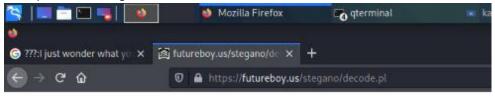
Readme.txt



Searched for the text on Google



- Uploaded Happiness.jpeg steganography tool-<a href="https://futureboy.us/stegano/decinput.html">https://futureboy.us/stegano/decinput.html</a>
- Passphrase tried glass animals / heatwaves/ h3at wav3s = h3at wav3s

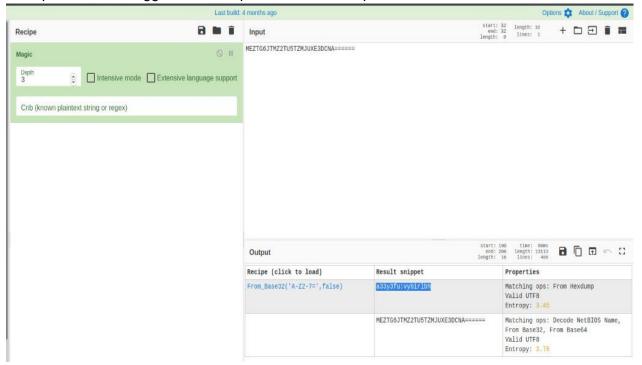


## MEZTG6JTMZ2TU5TZMJUXE3DCNA======

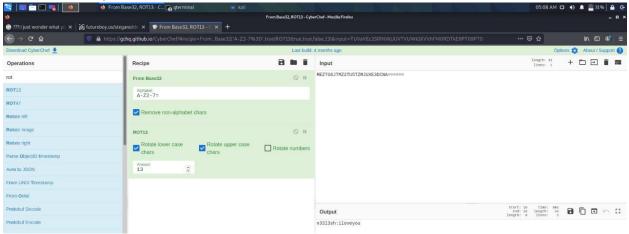
Got the String

Step 6: check it on cyberchef

 A function called "Magic" - "The Magic operation attempts to detect various properties of the input data and suggests which operations could help to make more sense of it.



- The Base32 string looked like a rot algorithm(Rotation cipher) because I had come across a directory called: "n33l3sh" - "a33y3fu"
- Rot13 Decoding n33l3sh:{PASSWORD}.

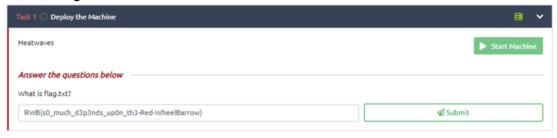


Step 7: Trying to Login in via SSH using the port 5522.

ssh n33l3sh@{ipaddress} -p 5522

- Finally got the Flag file '.flag.txt'
- After trying to cat.flag.txt

## Got the flag.



Submit the flag.

