

# GETTING STARTED WITH

# HACKIFIEBOX

#### ME

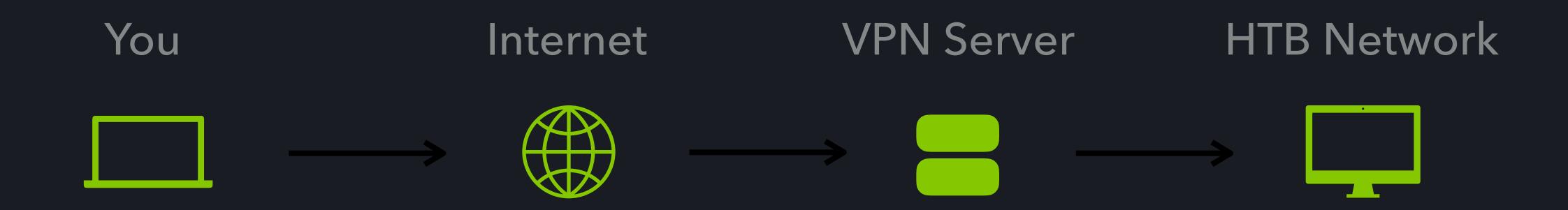
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Assembled in Miami

@nightshiftc

- Full Stack Software Engineer
- Bug Bounty Program / VDP Manager
- MiamiJS meetup Founder and Co-organizer
- Write at ethicalhacking.sh

# CONNECTING TO HACKTHEBOX



\$ sudo openvpn htb.ovpn

# HACKER METHODOLOGY

- Recon searching for vulnerabilities that can be used to gain access
- Exploitation
   Using vulnerabilities identified during by recon to gain access
- Privilege Escalation
   Gain elevated access to resources that are usually protected
- Post Exploitation (not applicable to HTB)
   Persistence, Data Extraction, Removing evidence of breach

### RECON

#### Passive

Don't interact with the target directly: OSINT, viewing a webpage and its source, googling, looking at social media, Github repos.

#### Active

Interact directly with the systems in order to gather system level information. Can be illegal. Get permission.

## PORT SCANNING WITH NMAP

\$ nmap -sV -sC -T4 10.10.10.75

- -sVversion detection
- T4
   paranoid (0) | sneaky | polite |
   normal (3 default) | aggressive |
   insane (5)

- -sC
   Performs a script scan using the default set of scripts
- -p-Scan ports from 1 through 65535

#### DIRECTORY & FILE DISCOVERY

Brute forcing with a wordlist to search for unlinked directories and files

- Word Lists
  - in Kali: /usr/share/wordlists
  - Daniel Miessler's SecLists

```
$ feroxbuster -u http://10.10.10.10.75/nibbleblog -x html php
-w ~/labs/tools/SecLists/Discovery/Web-Content/raft-
medium-directories.txt -s 200 204 301 -d 1 -silent
```

## FINDING PUBLIC EXPLOITS

- Metasploit penetration testing framework that helps you find and exploit vulnerabilities
- Common Vulnerabilities and Exposures (CVE) repositories e.g. Exploit-DB, Mitre

## METASPLOIT FRAMEWORK

It is many things, but among them it is a collection of exploits that can be used to exploit known vulnerabilities from within the MSF Console

- usechanges context to the indicated exploit
- show options
   displays options for current exploit
   and if they are required

- setset option values for currentpayload
- exploit
   attempts to run exploit with
   designated options

#### NETCAT REVERSE SHELL

A reverse shell is a shell session established using Remote Command Execution (RCE) from the remote victim machine instead of the attacker's.

\$ nc -nvlp 1234

- Listen mode
- -n
   Disable DNS resolution for faster
   connection

- Verbose mode
- -p Listener port

#### TTY SHELL

```
$ python3 -c 'import pty; pty.spawn("/bin/bash")'
– CTRL+Z
$ echo $TERM
  xterm-256color
$ stty size
  67 318
$ stty raw -echo; fg

    ENTER, ENTER

$ export TERM=xterm-256color
$ export stty rows 67 columns 318
```

# WHY ROOT USER?

- Remove any or all files
- Change the permissions of any or all files
- Create, update and remove user accounts
- Remove or install software

# LINUX ENUMERATION SCRIPTS

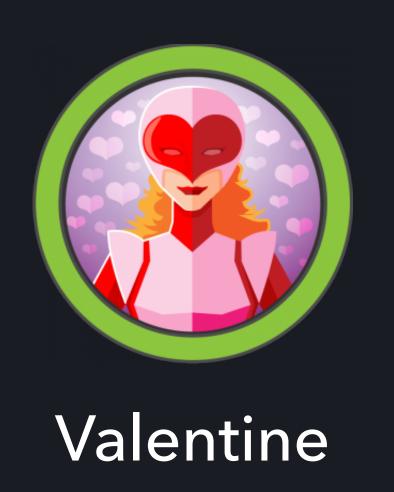
- linPEAS
- Linux Smart Enumeration
- LinEnum
- g0tmi1k's Linux Priv Esc cheat sheet

# CONTINUED LEARNING









- Courses:
  - ► <u>Tib3rius' Linux Privilege Escalation</u>
  - Tib3rius' Window Privilege Escalation