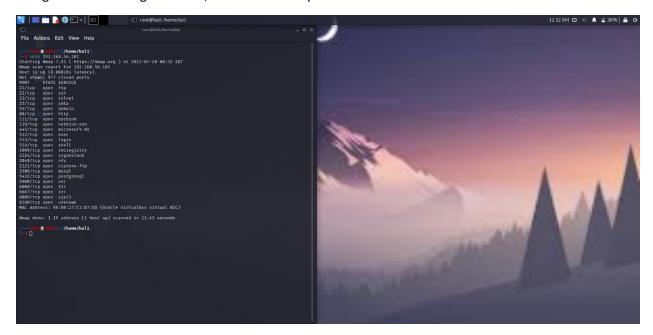
Part 1: Running a default Nmap scan on Metasploitable 2 to see which ports are open

First, we ran an ifconfig on Metasploitable to see what its IP address was

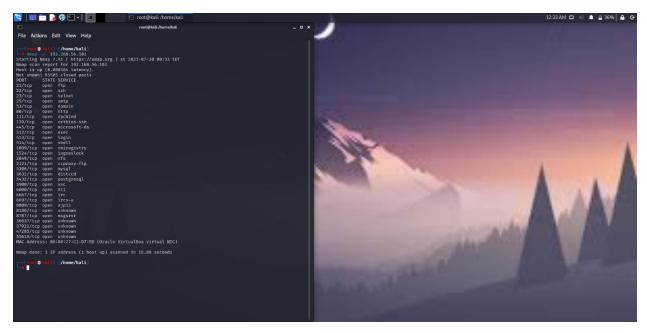
```
msfadmin@metasploitable:~$ ifconfig
eth0
          Link encap:Ethernet HWaddr 08:00:27:c1:d7:ed inet addr:192.168.56.101 Bcast:192.168.56.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fec1:d7ed/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:66885 errors:0 dropped:0 overruns:0 frame:0
          TX packets:66755 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:4285505 (4.0 MB) TX bytes:3613969 (3.4 MB)
          Base address:0xd020 Memory:f0200000-f0220000
lo
          Link encap:Local Loopback
          inet addr: 127.0.0.1 Mask: 255.0.0.0
inet6 addr: ::1/128 Scope: Host
UP LOOPBACK RUNNING MIU: 16436 Metric: 1
          RX packets:135 errors:0 dropped:0 overruns:0 frame:0
          TX packets:135 errors:0 dropped:0 overruns:0 carrier:0
          msfadmin@metasploitable:~$
```

Using the IP address given to us, we ran the Nmap scan in Kali Linux



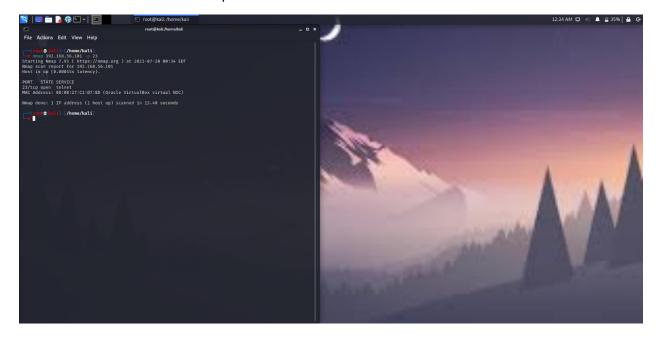
Between ports 0 and 1000, these are all the ports open

Part 2: Running a Nmap scan for all ports

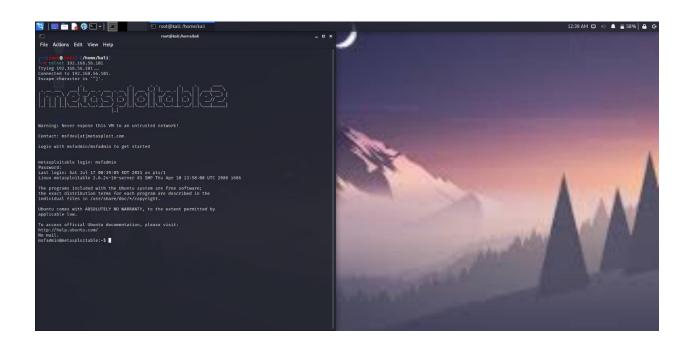


Part 3: Exploiting a service

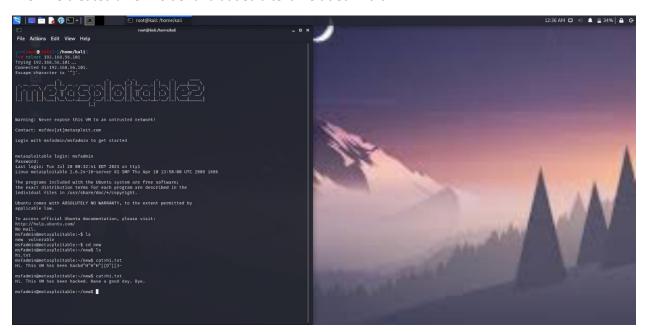
In this case we have decided to exploit telnet service.



Using telnet, we managed to get access to Metasploitable's user credentials and were able to login with admin privileges.



Then we created a new folder and added a text file titled hi.txt



Now switching over to Metasploitable where we see if this file has been made or not and what it contains

```
msfadmin@metasploitable:~$
new vulnerable
msfadmin@metasploitable:~$
```

```
msfadmin@metasploitable:~$ cd new
msfadmin@metasploitable:~/new$ ls
hi.txt
msfadmin@metasploitable:~/new$ _
```

```
msfadmin@metasploitable:~/new$ cat hi.txt
Hi. This VM has been hacked. Have a good day. Bye.
msfadmin@metasploitable:~/new$ _
```

With this we can say that the target has been successfully hacked using the telnet exploit.