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Mission Lab ALPHA Recon1: Network Identification and Reconnaissance

Mission Tasks:

Task 1: Orientation in the Unknown Virtual Environment

- Use the 'ip a' command to check the network interfaces on your current system.
- Execute the ip route command to view the routing table and identify the default gateway

In the screenshot above i can see my loopback address, and also my IP address: 192.168.0.83

Task 2: Identifying Live Systems

- Scan the network to identify live hosts using the 'ping' command.
- Use 'nmap' to perform a port scan and identify open ports on the live hosts. (optional)

I used ping to test connectivity.

Nmap is short for network mapper, and is a tool used to scan IP addresses and ports in a network.

Task 3: Network Mapping and System Discovery

Perform a detailed network scan using nmap to identify all active systems and their open ports. Use nmap to discover the operating system and service versions on the identified systems.

```
(cristian⊕ Barreno)-[~]

§ nmap 192.168.0.83

Starting Nmap 7,945VN ( https://nmap.org ) at 2024-03-22 20:06 EDT

Nmap scan report for 192.168.0.83

Host is up (0.000080s latency).

All 1000 scanned ports on 192.168.0.83 are in ignored states.

Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.08 seconds

[cristian⊕ Barreno)-[~]
```

ip route command

```
[-$ ip route default via 192.168.0.1 dev eth0 proto dhcp src 192.168.0.83 metric 100 192.168.0.0/24 dev eth0 proto kernel scope link src 192.168.0.83 metric 100 [-$ [Cristian⊕ Barreno] - [~]
```

With ip route i can check the routing table and find the default waterway.

Task 4: ASSIGNMENT

Create a bash script called "recon1.sh" that will contain the for loop provided above that will run and create an output file on the results. Please write down a short list of the commands and tools we used during the mission. Store your output in a file called "TargetList.txt" and upload this file with your assignment submission.

In the screenshot above i used the text editor vim to create a bash script inside the recon1.sh file

The tools and commands and tools that we used during this mission are:

- ip a
- ping
- nmap
- ip route
- chmod
- cat
- Vim
- Pwd

```
(cristian⊕ Barreno)-[~]

-$ ls -l
total 40
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:23 Desktop
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Documents
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Documents
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Downloads
-rw-r-r- 1 cristian cristian 4096 Mar 21 22:10 Music
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Public
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Public
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Public
drwxr-xr-x 2 cristian cristian 4096 Mar 21 22:10 Videos
-rwxr-xr-x 1 cristian cristian 4096 Mar 21 22:10 Videos
-rwxr-xr-x 1 cristian cristian 182 Mar 22 20:47 recon1.sh

-$ cristian⊕ Barreno}-[~]

-$ cristian⊕ Barreno}-[~]
```

In the screenshot above I used chmod, or change mode to modify the file's permissions.



In the screenshot above i stored the output of the script onto a file called TargetList.txt