

Wireshark exercise 3 Try Out

Packet Capture with Nmap:

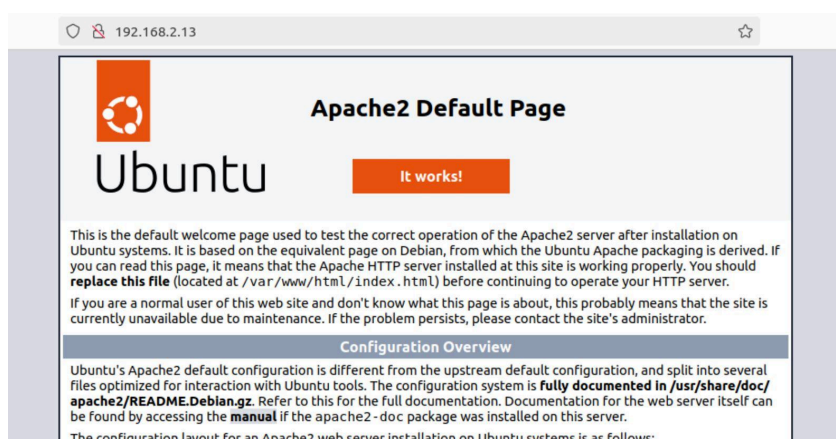
- We started by scanning a target machine's IP address to identify open ports, services running on those ports, and any version information.
- The command used was: **nmap -A 192.168.2.13**.

```
amina@amina-virtual-machine:~$ nmap -A 192.168.2.13
Starting Nmap 7.80 ( https://nmap.org ) at 2024-06-03 15:00 CEST
Nmap scan report for 192.168.2.13
Host is up (0.0066s latency).
Not shown: 998 filtered ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.7 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.52 ((Ubuntu))
|_http-server-header: Apache/2.4.52 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
Service Info: OS: 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 18.34 seconds
```

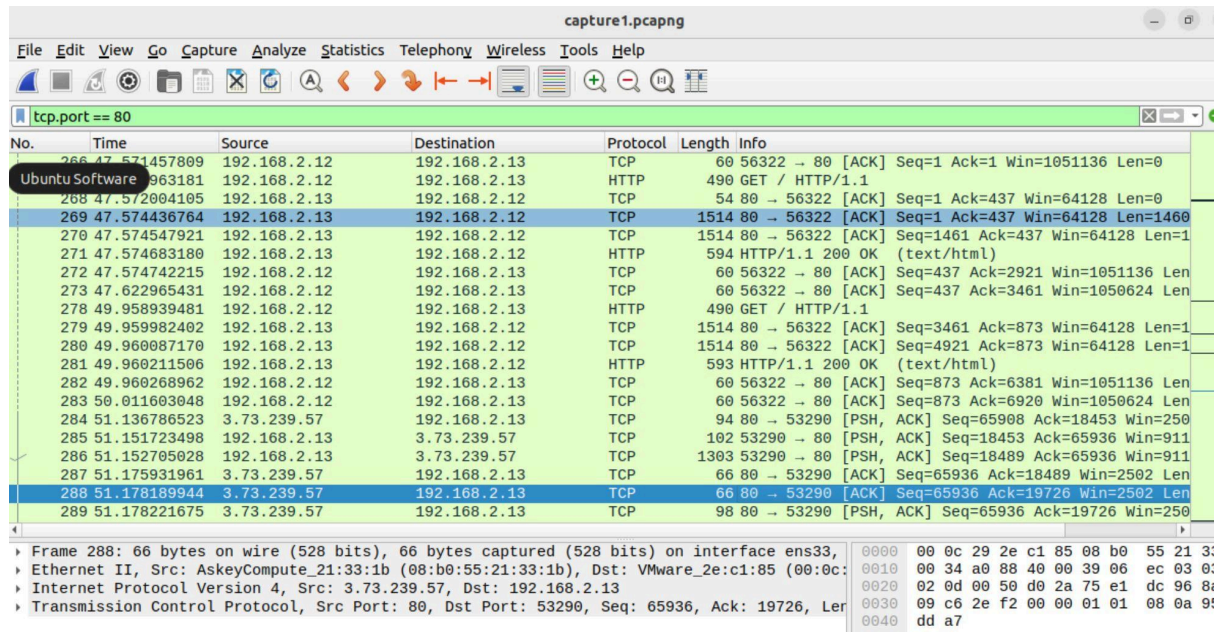
2. Capturing Traffic with Wireshark:

- We opened Wireshark on the target machine and started capturing traffic on the network interface connected to our attacker machine.
- We generated traffic between the two machines by accessing a website running on port 80 of the target machine. I installed Apache to check if this worked and it did!:-)



3. Correlating Nmap and Wireshark Findings:

- After capturing traffic, we stopped the capture on the target machine's Wireshark and saved the captured file (**capture1.pcapng**).
- We transferred the file to our attacker machine (**LION**) using **SCP** for analysis.
- However, there were initial challenges in locating the transferred file on the attacker machine due to errors in directory paths and file naming.



4. Analyzing Captured Traffic:

- Once we located the file, we opened it in Wireshark on our attacker machine for analysis.
- Wireshark displayed the captured packets, allowing us to identify the communication between the attacker and target machines.
- We compared the details in the captured packets with the findings from the Nmap scan to gain insights into the network activity.

Despite encountering initial challenges with file transfer and directory paths, we successfully analyzed the captured traffic and correlated the findings from Nmap and Wireshark.