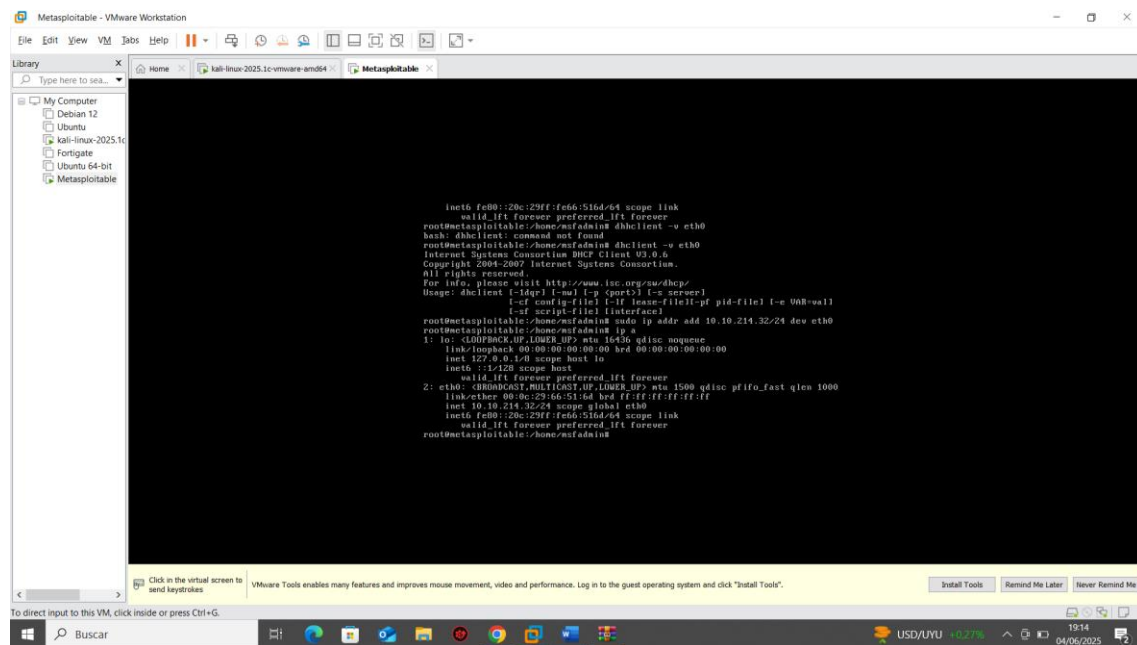
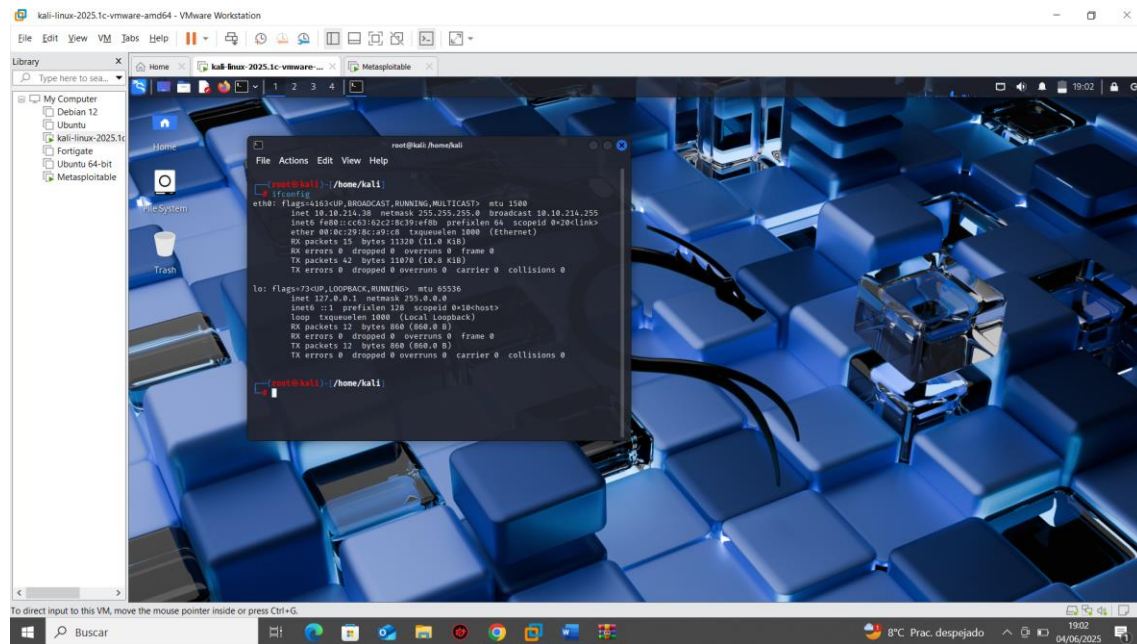


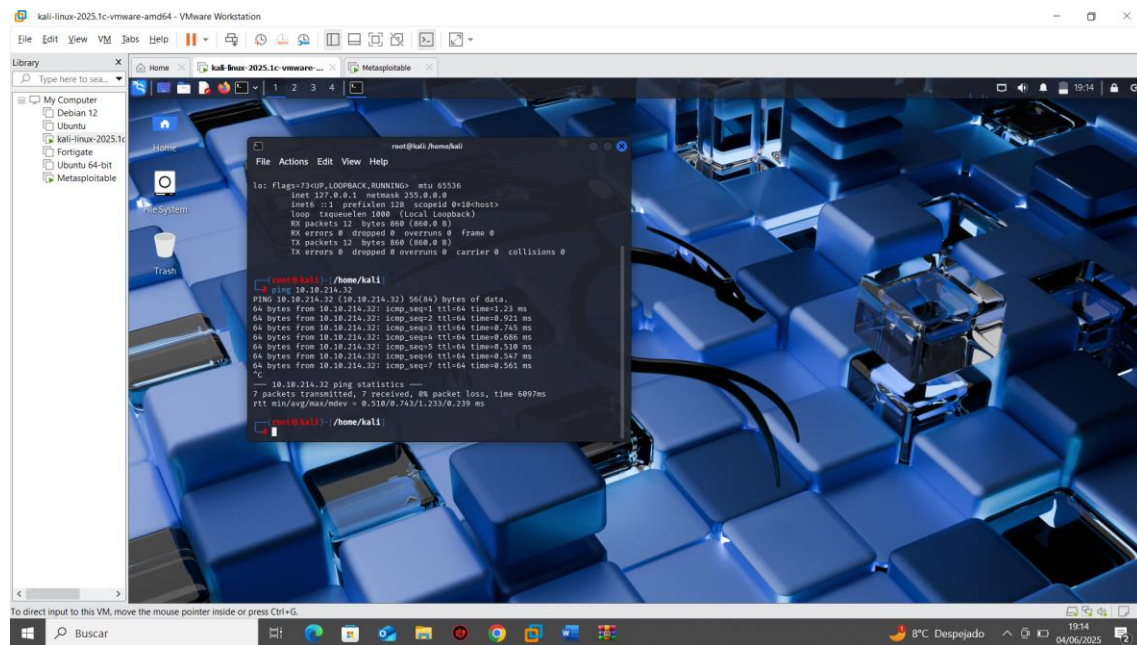
# LABORATORIO 11

**Nombre:** Nelly Mamani Tapia

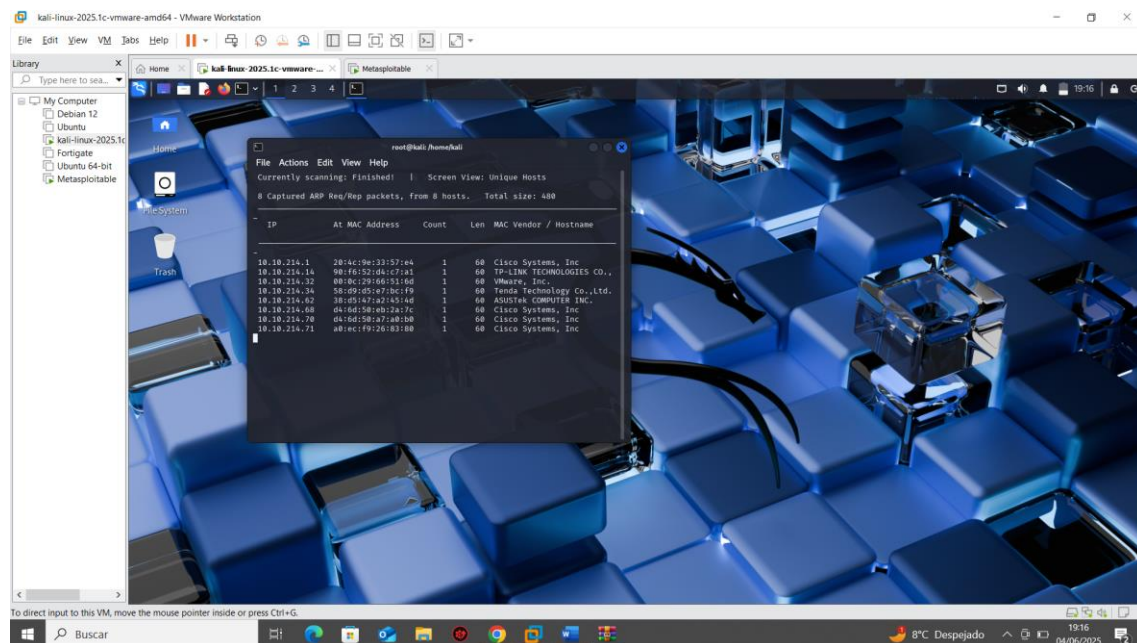
**Parte 1:** ver direcciones ip



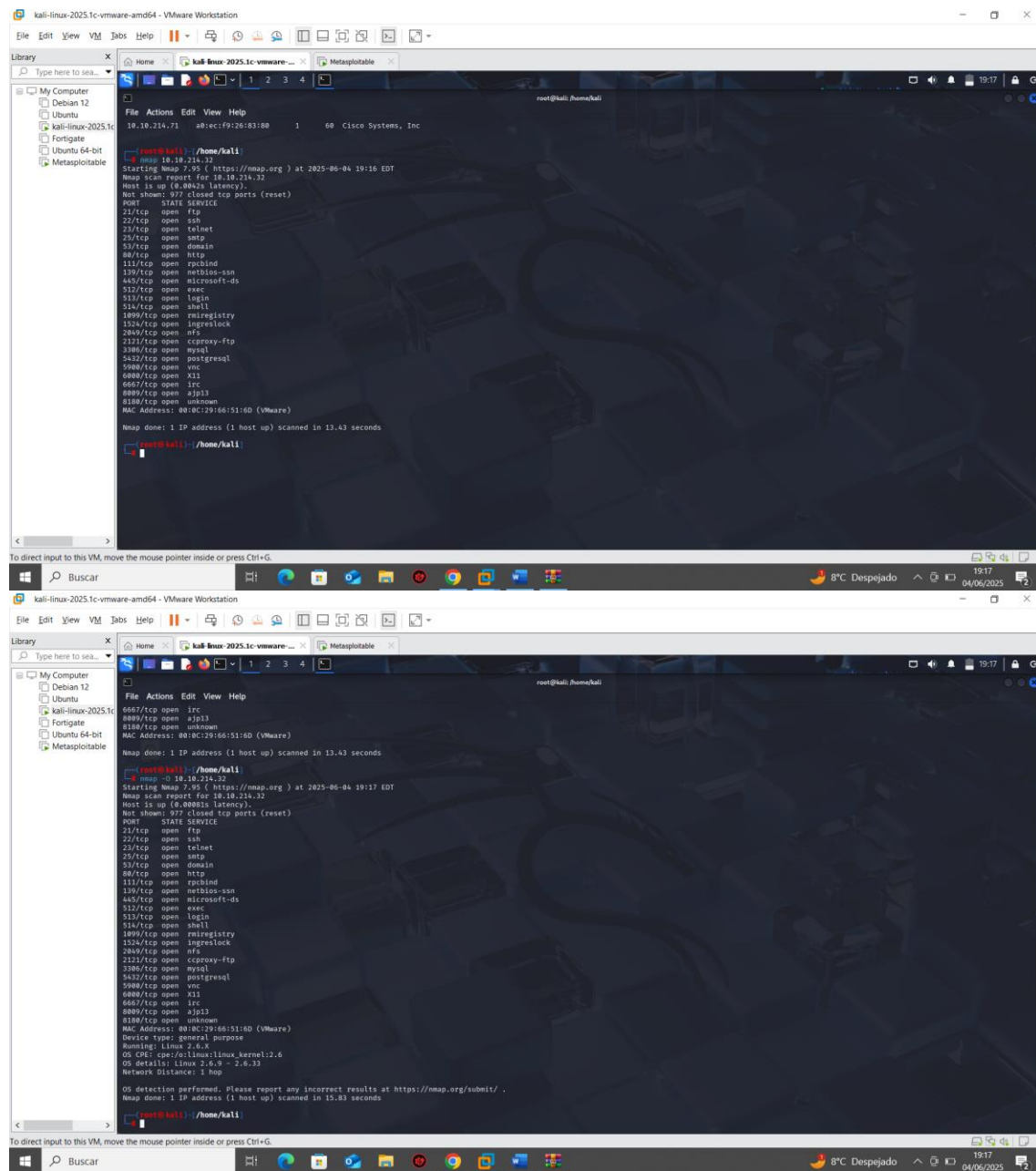
## Parte 2: realizar ping

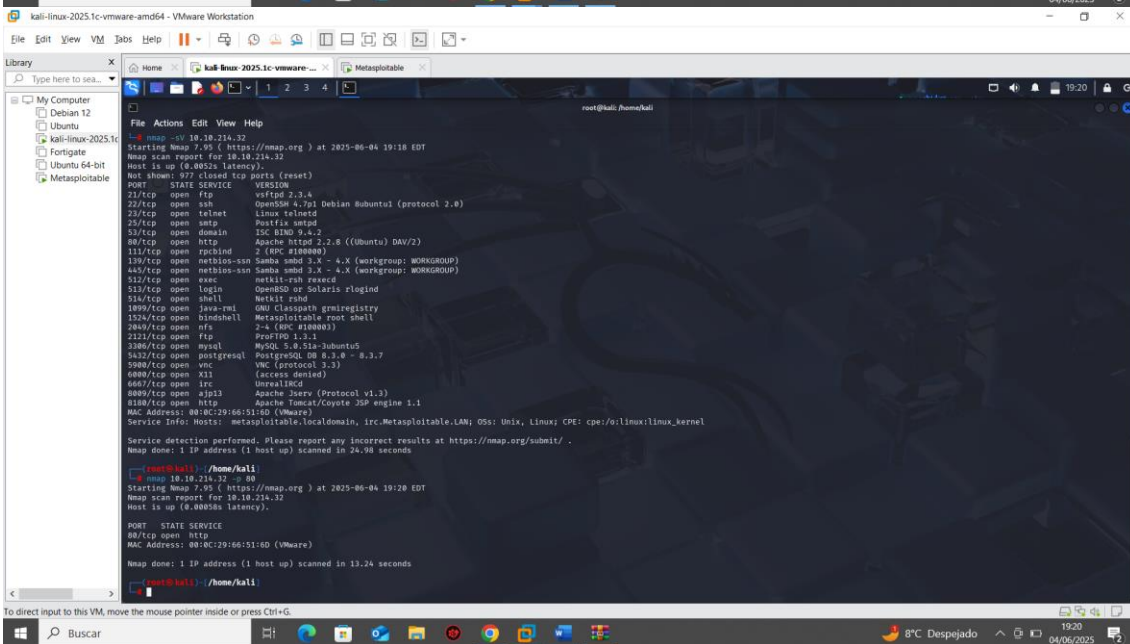
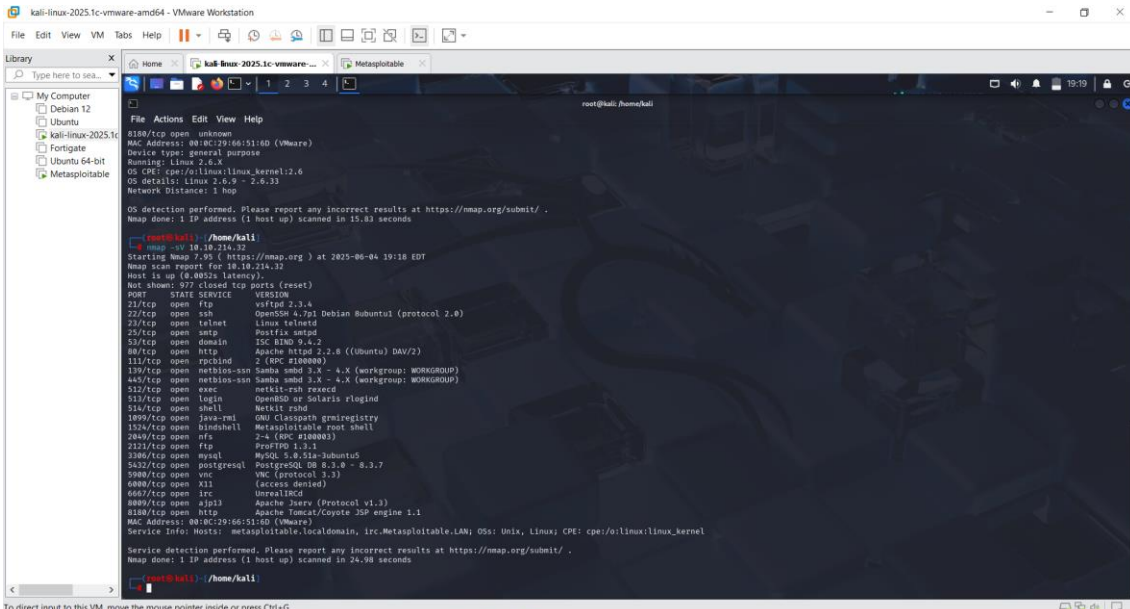


### Parte 3:

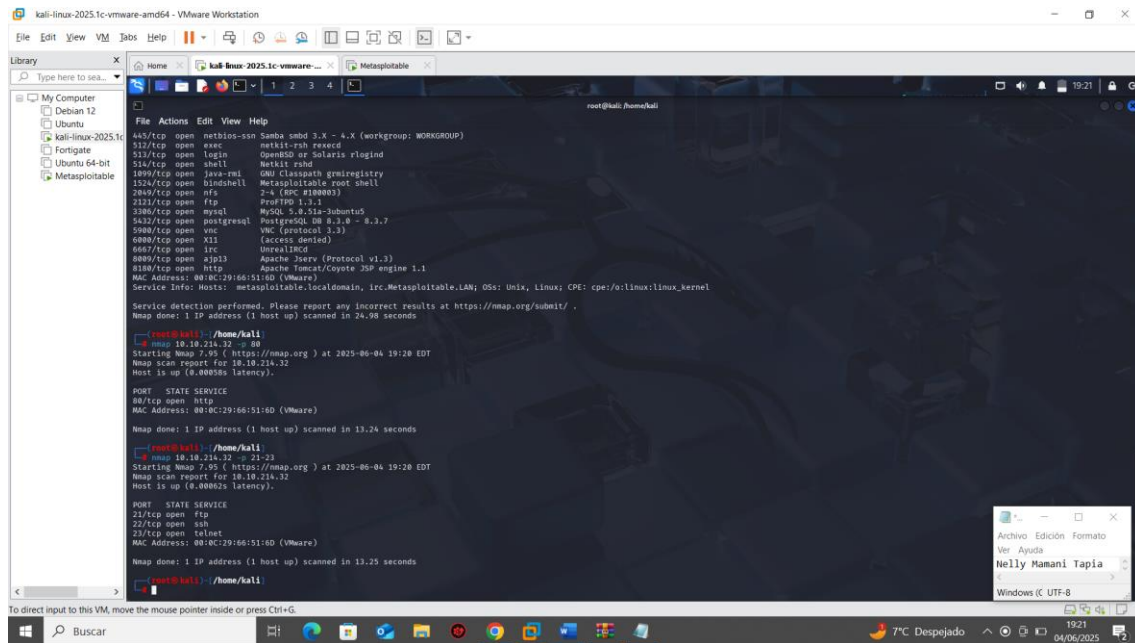


## Parte 4: usando nmap



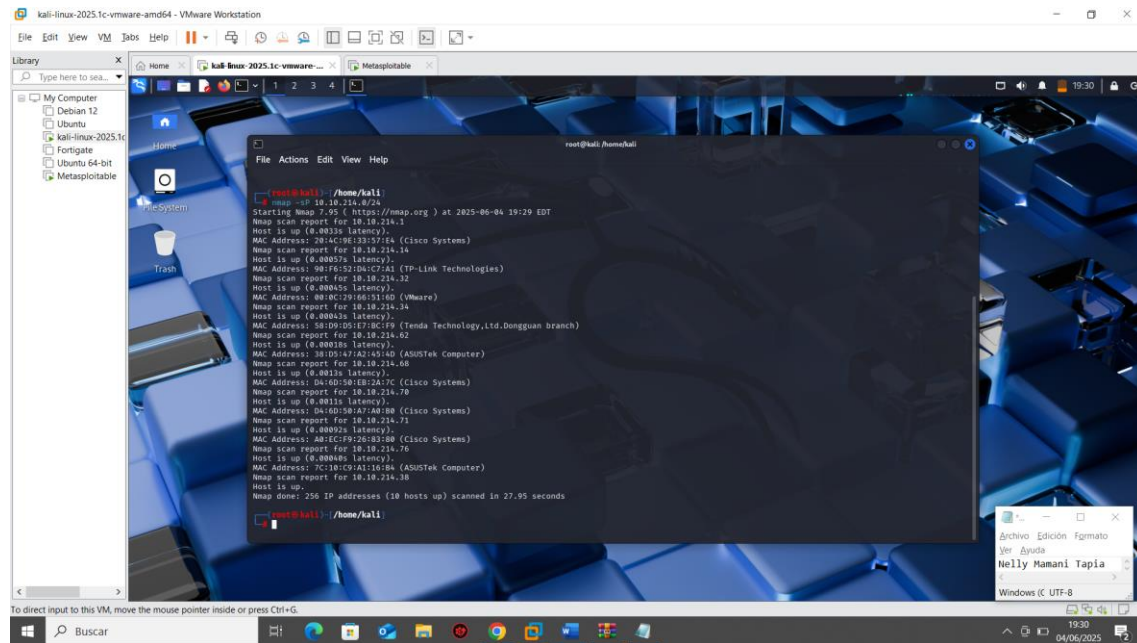






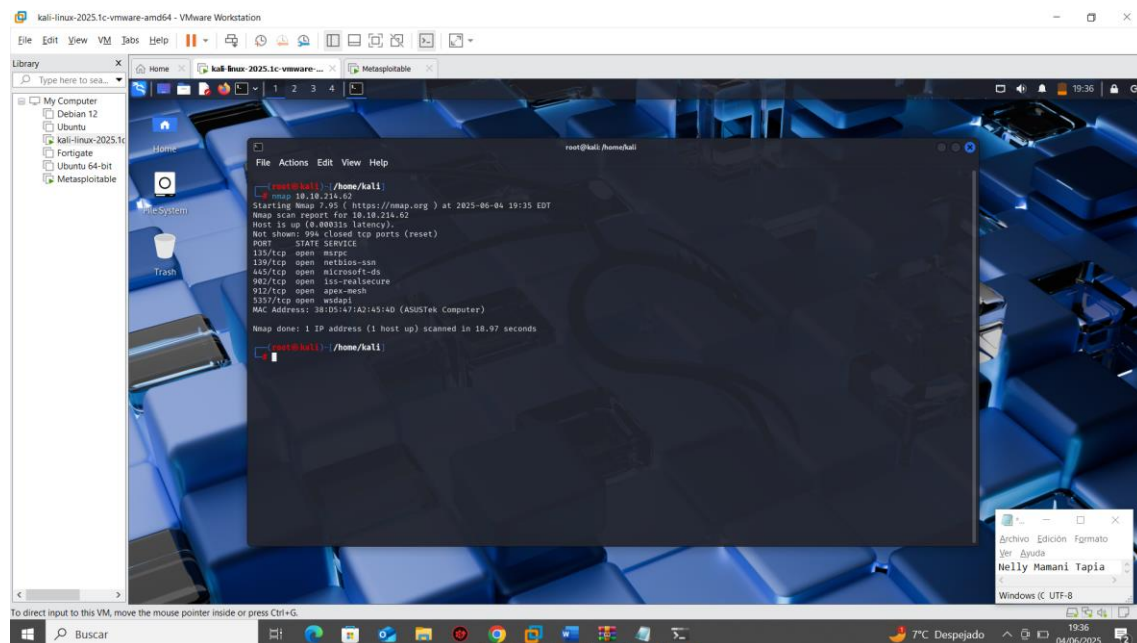
## EVALUACION

**Pregunta 1:** Se identificaron 10 hosts activos en la red 10.10.214.0/24. Para cada host activo, se muestra su dirección IP, dirección MAC y el fabricante del adaptador de red



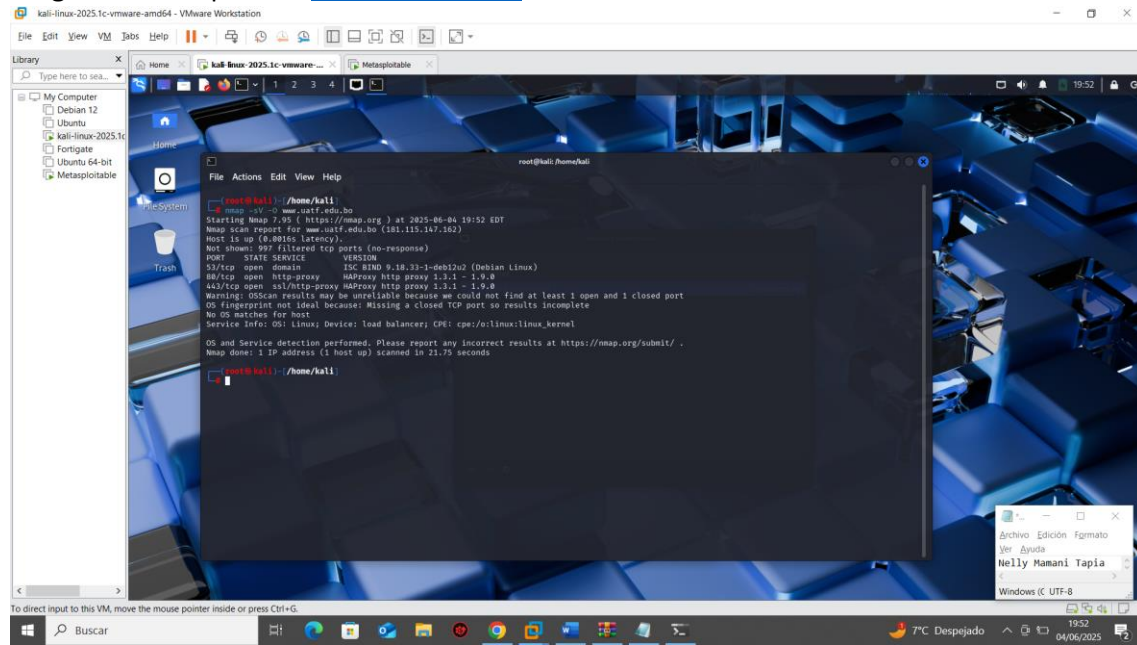
```
root@kali: ~/home/kali
nmap -sP 10.10.214.0/24
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-04 19:29 EDT
Nmap scan report for 10.10.214.1
Host is up (0.0033s latency).
MAC Address: 28:AC:9E:33:57:E4 (Cisco Systems)
Nmap scan report for 10.10.214.14
Host is up (0.00057s latency).
MAC Address: 98:F6:52:D4:C7:A1 (TP-Link Technologies)
Nmap scan report for 10.10.214.22
Host is up (0.00045s latency).
MAC Address: 08:0C:79:66:31:6D (VMware)
Nmap scan report for 10.10.214.34
Host is up (0.00043s latency).
MAC Address: 38:05:47:A2:43:4D (ASUSTek Computer)
Nmap scan report for 10.10.214.62
Host is up (0.0001s latency).
MAC Address: 04:4D:5B:E8:2A:7C (Cisco Systems)
Nmap scan report for 10.10.214.70
Host is up (0.0011s latency).
MAC Address: 04:4D:5B:A7:A0:B8 (Cisco Systems)
Nmap scan report for 10.10.214.71
Host is up (0.00092s latency).
MAC Address: A8:EC:F9:2B:3B:08 (Cisco Systems)
Nmap scan report for 10.10.214.76
Host is up (0.0004s latency).
MAC Address: 7C:3B:C9:A1:16:58 (ASUSTek Computer)
Nmap scan report for 10.10.214.38
Host is up.
Nmap done: 256 IP addresses (10 hosts up) scanned in 27.95 seconds
root@kali: ~/home/kali
```

**Pregunta 2:** puertos abiertos:135,139,445,902,912,5357



```
root@kali: ~/home/kali
nmap -sP 10.10.214.0/24
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-04 19:35 EDT
Nmap scan report for 10.10.214.62
Host is up (0.0001s latency).
Not shown: 994 closed tcp ports (reset)
PORT      STATE SERVICE
135/tcp    open  msrpc
139/tcp    open  netbios-ssn
445/tcp    open  microsoft-ds
902/tcp    open  iss-realservice
912/tcp    open  aps-mesh
5357/tcp   open  wsddapi
Nmap done: 1 IP address (1 host up) scanned in 18.97 seconds
root@kali: ~/home/kali
```

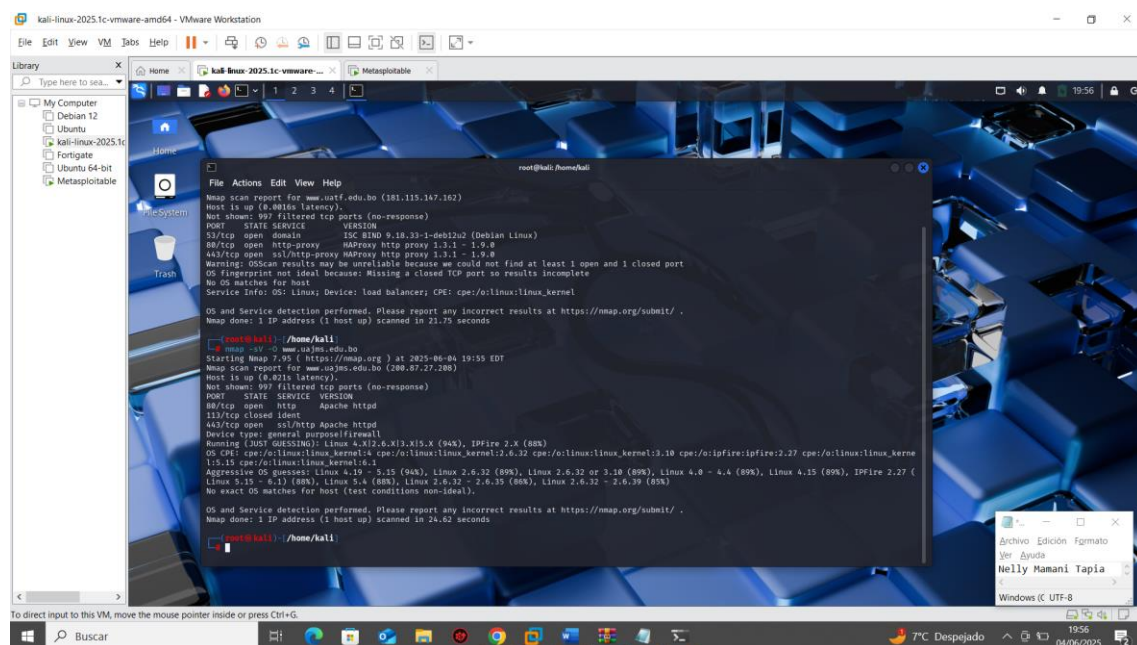
### Pregunta 3: nmap -sV -O [www.uatf.edu.bo](http://www.uatf.edu.bo)



```
root@kali: /home/kali
root@kali: ~# nmap -sV -O www.uatf.edu.bo
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-04 19:52 EDT
Nmap Scan Report for www.uatf.edu.bo (181.115.147.162)
Host is up (0.0016s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
53/tcp    open  domain      ISC BIND 9.18.33-1-deb12u2 (Debian Linux)
80/tcp    open  http-proxy   HAProxy http proxy 1.3.1 - 1.9.8
443/tcp   open  ssl/http-proxy HAProxy http proxy 1.3.1 - 1.9.8
Warning: OSscan results may be unreliable because we could not find at least 1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
Service Info: OS: Linux; Device: load balancer; CPE: cpe:/o:linux:linux_kernel

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 21.75 seconds

root@kali: /home/kali
```



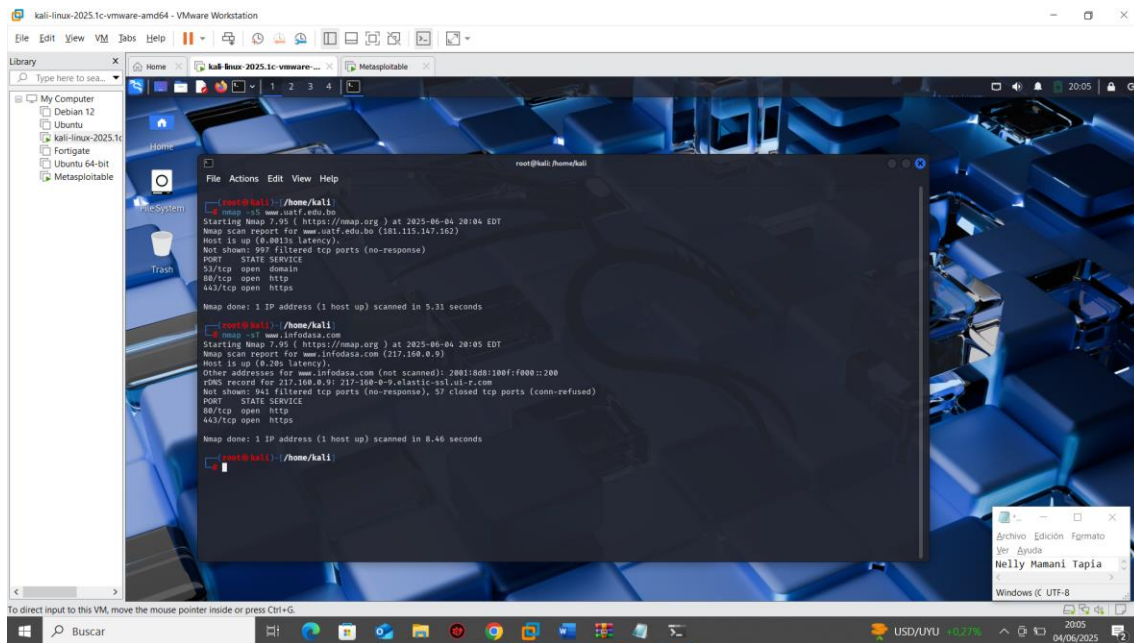
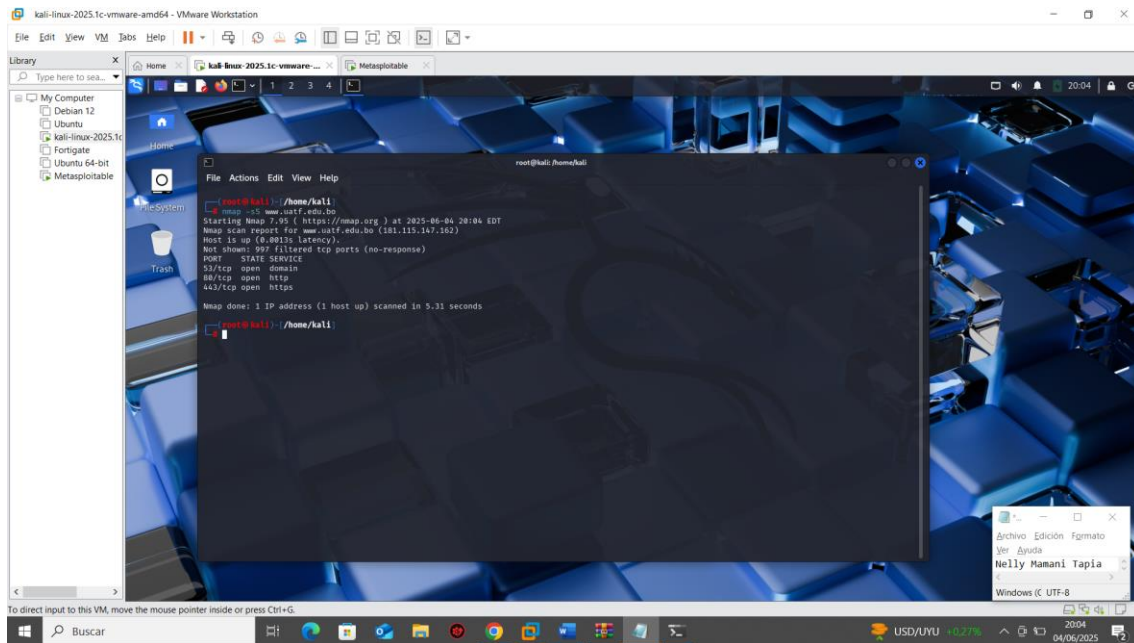
```
root@kali: /home/kali
root@kali: ~# nmap -sS www.uatf.edu.bo
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-04 19:55 EDT
Nmap Scan Report for www.uatf.edu.bo (181.115.147.162)
Host is up (0.0016s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
80/tcp    open  http        Apache httpd
443/tcp   open  ssl/http Apache httpd
Device type: general purpose|firewall
Running (OS detection): Linux 4.12-6.x13.x15.x (94%), IPFire 2.X (88%)
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:2.6.32 cpe:/o:ipfire:ipfire:2.27 cpe:/o:linux:linux_kernel:5.15-6.11 (88%), Linux 2.6.32 - 2.6.35 (88%), Linux 2.6.32 - 2.6.39 (85%)
Aggressive OS guesses: Linux 4.19 - 5.15 (94%), Linux 2.6.32 (89%), Linux 2.6.32 or 3.10 (89%), Linux 4.8 - 4.4 (89%), Linux 4.15 (89%), IPFire 2.27 (Linux 5.15 - 6.11) (88%), Linux 2.4 (88%), Linux 2.6.32 - 2.6.35 (88%), Linux 2.6.32 - 2.6.39 (85%)
No exact OS matches for host (test conditions non-ideal).

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 24.62 seconds

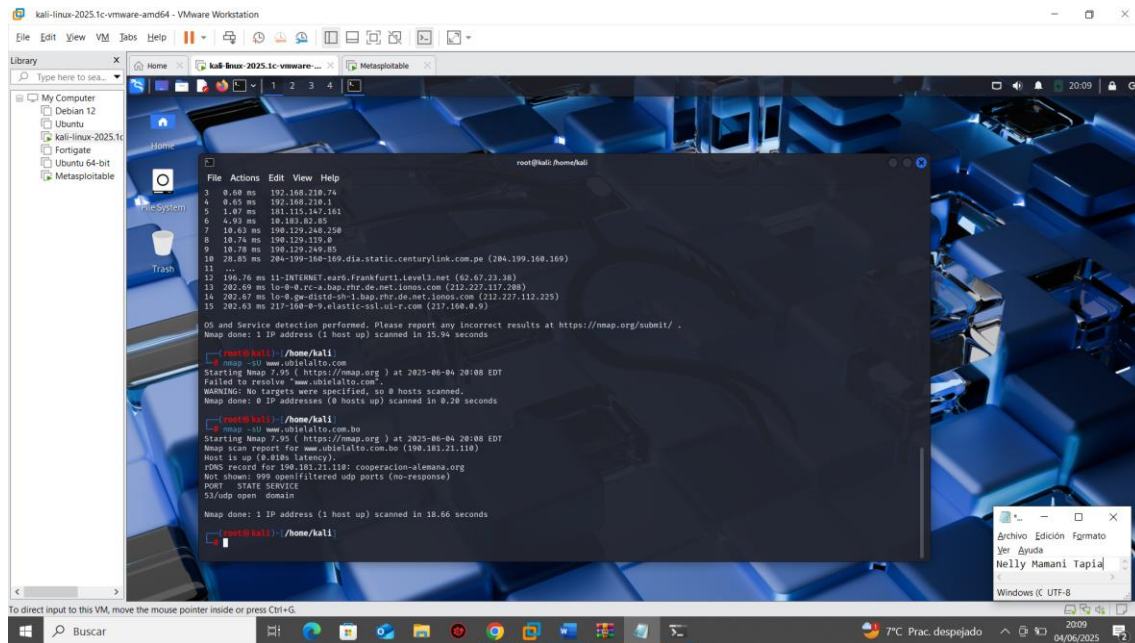
root@kali: /home/kali
```

### Pregunta 4:

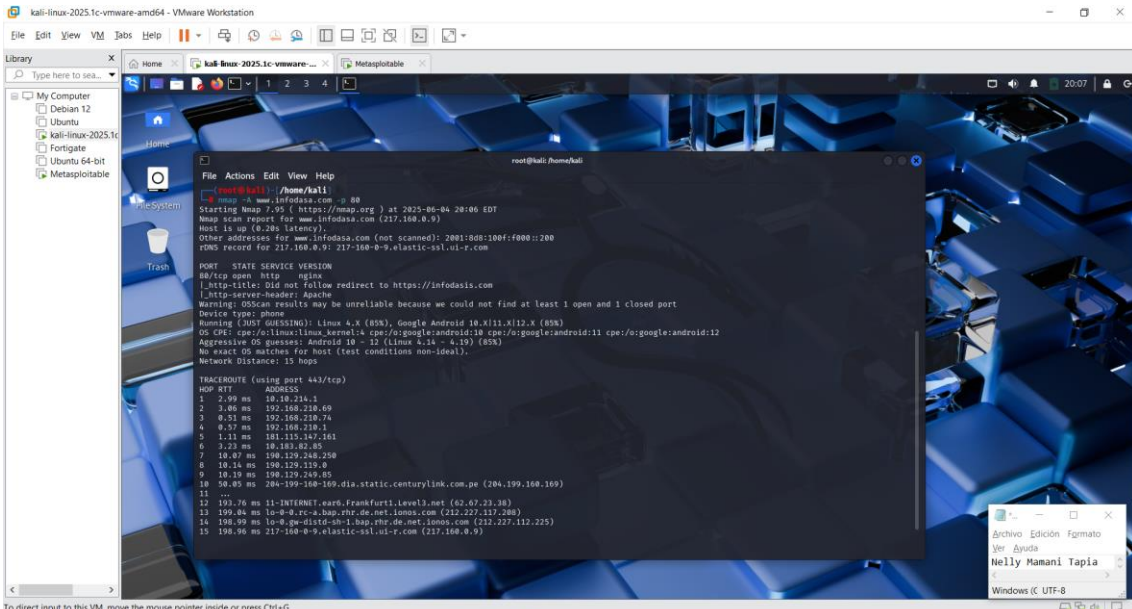
- nmap -sS: Escaneo TCP rápido y sigiloso (SYN), requiere root, no completa conexión.
- nmap -sT: Escaneo TCP completo (Connect), no requiere root, más detectable y lento.
- nmap -sU: Escaneo UDP, para servicios UDP, lento y a veces con resultados inciertos.



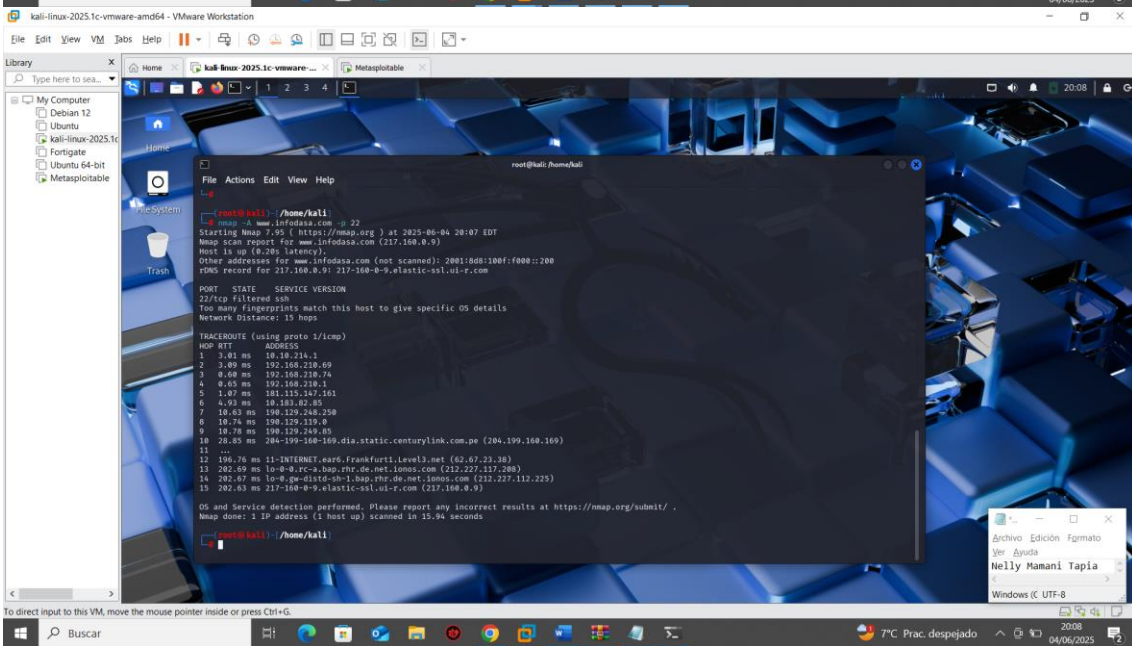




Pregunta 5:



To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

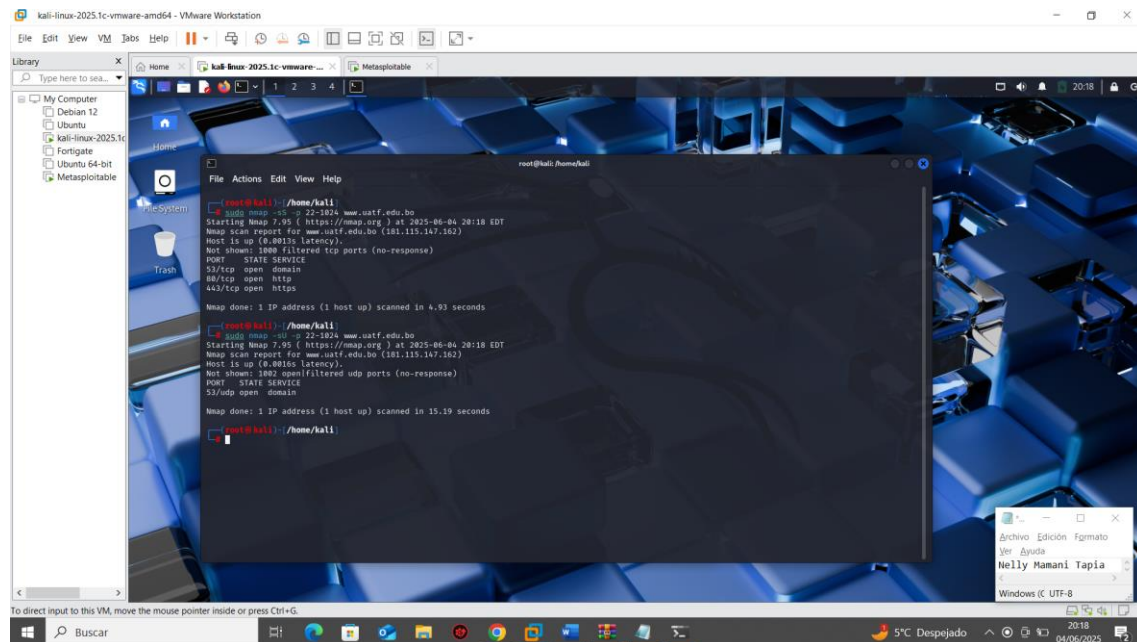


To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

### Pregunta 6:

**TCP:** `nmap -sS -p 22-1024 www.uatf.edu.bo`

**UDP:** `nmap -sU -p 22-1024 www.uatf.edu.bo`



### Pregunta 7:

- **nmap -F [www.uatf.edu.bo](http://www.uatf.edu.bo)** - (Realiza un escaneo rápido de los 100 puertos TCP más comunes para identificar rápidamente los servicios básicos que podrían estar corriendo).
- **sudo nmap -sV -sC -p 80,443 [www.uatf.edu.bo](http://www.uatf.edu.bo)** - (Detecta versiones de servicios (-sV) y ejecuta scripts NSE por defecto (-sC) en los puertos HTTP (80) y HTTPS (443) para obtener más detalles y posible enumeración).
- **sudo nmap -sU --top-ports 20 [www.uatf.edu.bo](http://www.uatf.edu.bo)** - (Escanea los 20 puertos UDP más comunes para identificar servicios UDP; los escaneos UDP (-sU) suelen ser más lentos).