

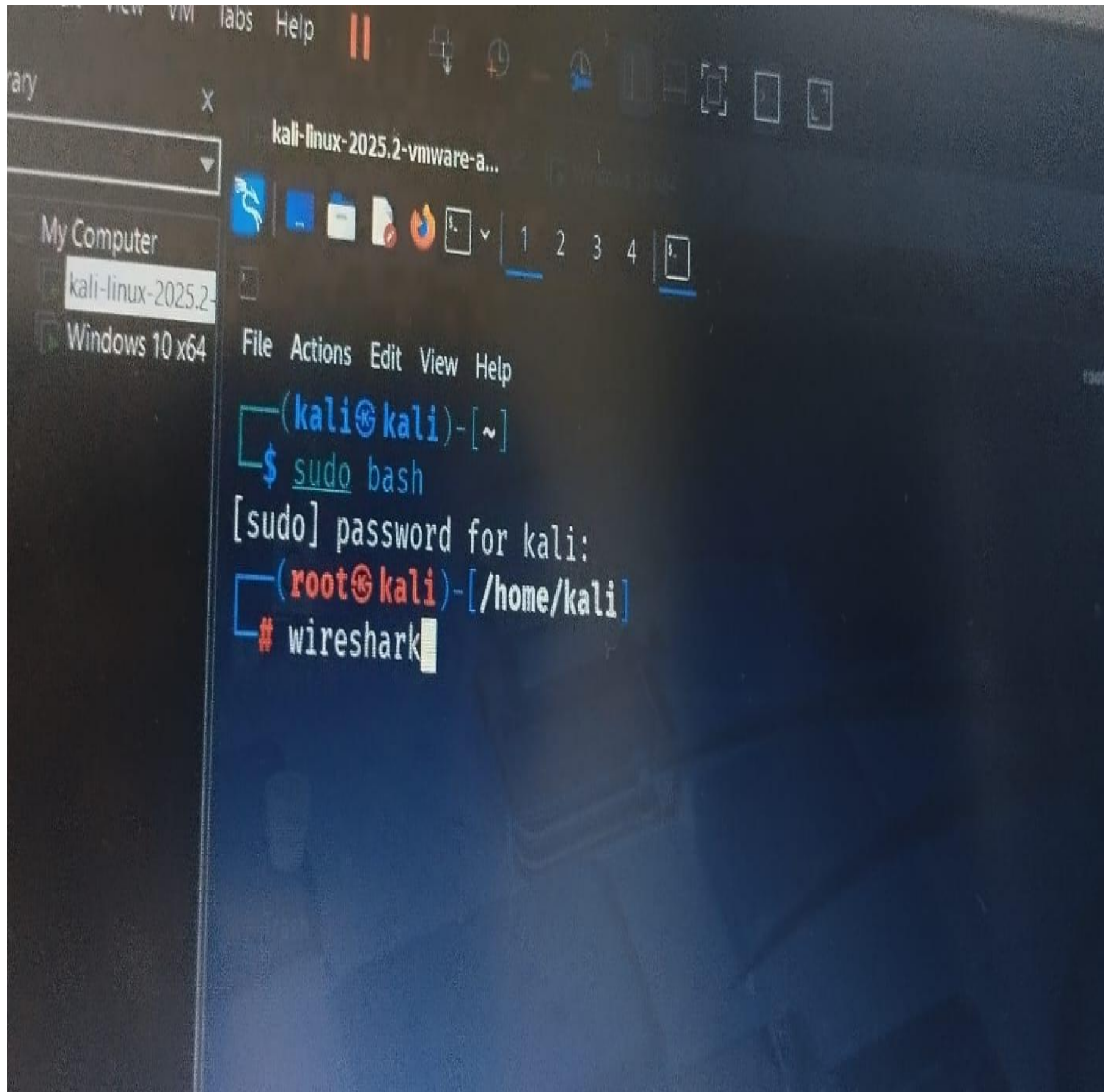
ASSIGNMENT 1

HOW ATTACKER CAN INTERCEPT UNCRYPTED LOGIN
CREDENTIALS USING NETWORK SNIFFING TOOLS
(WIRESHARK)

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SNIFFING AND WIRESHARKS



The Terminal in Linux is a command-line interface (CLI) that allows users to interact directly with the operating system using typed commands.

It is powerful because:

What is Sniffing?

Sniffing is the process of monitoring and capturing network packets (data traffic) as they travel over a network.

TOOLS USED :

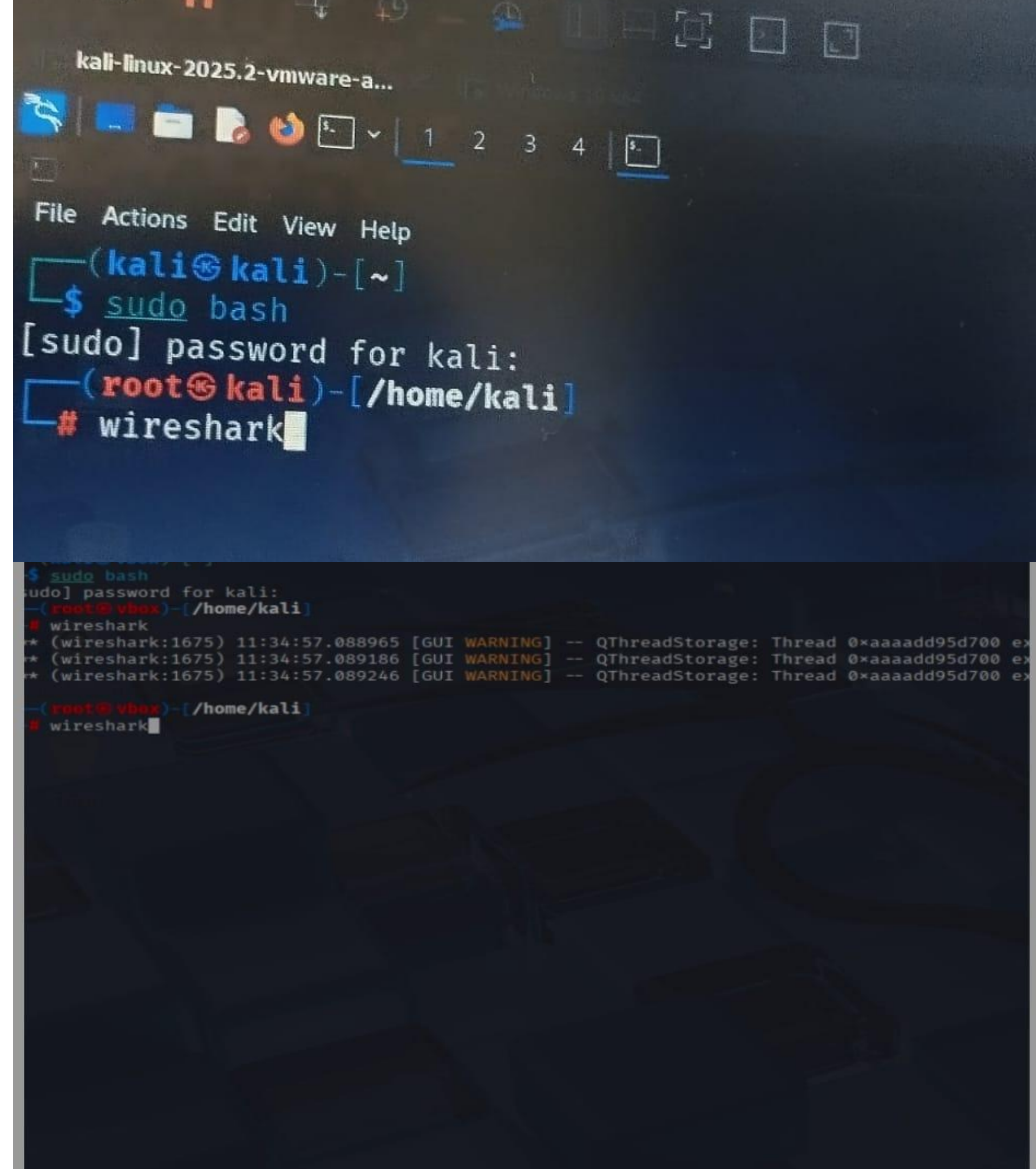
- WIRESHARK: Capture the live traffic networks(GUI)
- TCPDUMP: (CLI)a powerful command-line utility used for capturing and analyzing network traffic.

Wireshark is a free and open-source network protocol analyzer used to capture and analyze data packets in real time. It allows users to see what's happening on a network at a deep level and is commonly used for network troubleshooting, cybersecurity analysis, and protocol development.

STEP 1:

OPEN TERMINAL AND RUN :

- Sudo bash
- Wireshark

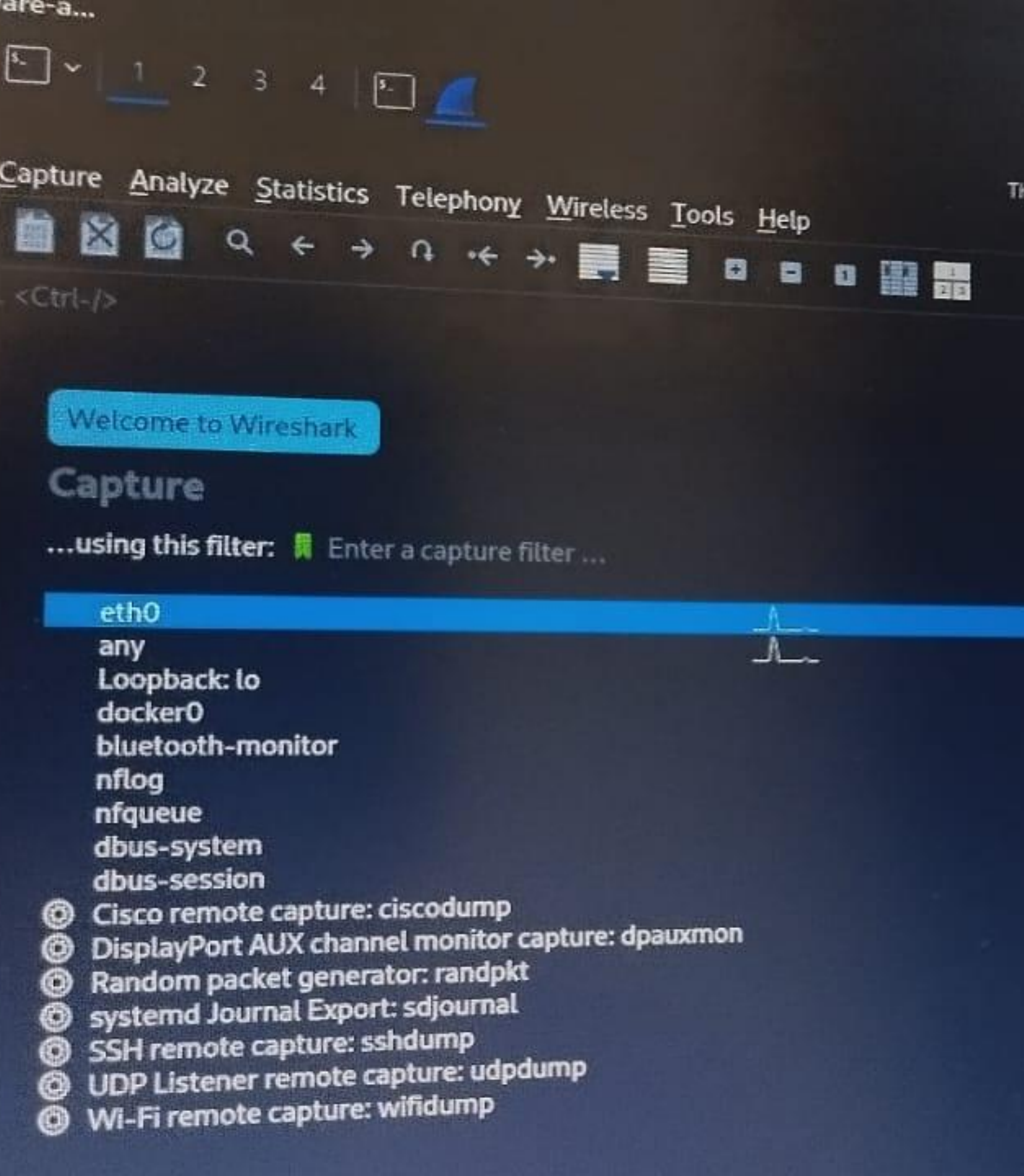


The image shows a terminal window titled 'kali-linux-2025.2-vmware-a...'. The terminal displays the following sequence of commands and output:

```
(kali@kali)-[~]  
$ sudo bash  
[sudo] password for kali:  
(root@kali)-[/home/kali]  
# wireshark
```

Below this, there is a second terminal window showing the execution of 'wireshark' and subsequent output:

```
$ sudo bash  
[sudo] password for kali:  
(root@vbox)-[/home/kali]  
# wireshark  
* (wireshark:1675) 11:34:57.088965 [GUI WARNING] -- QThreadStorage: Thread 0xaaaadd95d700 ex  
* (wireshark:1675) 11:34:57.089186 [GUI WARNING] -- QThreadStorage: Thread 0xaaaadd95d700 ex  
* (wireshark:1675) 11:34:57.089246 [GUI WARNING] -- QThreadStorage: Thread 0xaaaadd95d700 ex  
(root@vbox)-[/home/kali]  
# wireshark
```

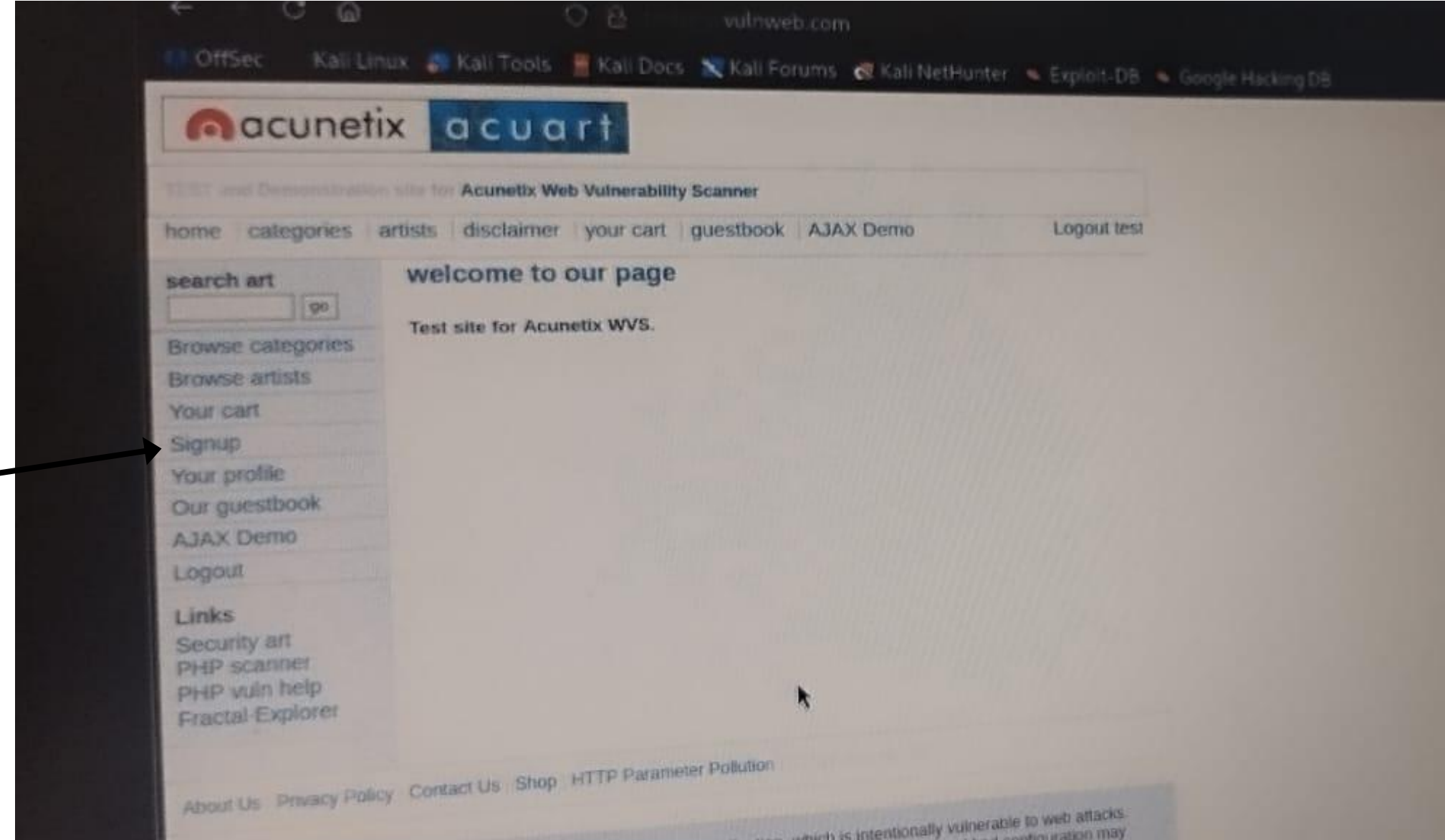
Step 2:

Choose eth0 network
interface

It will Begin capturing
packets form the networks

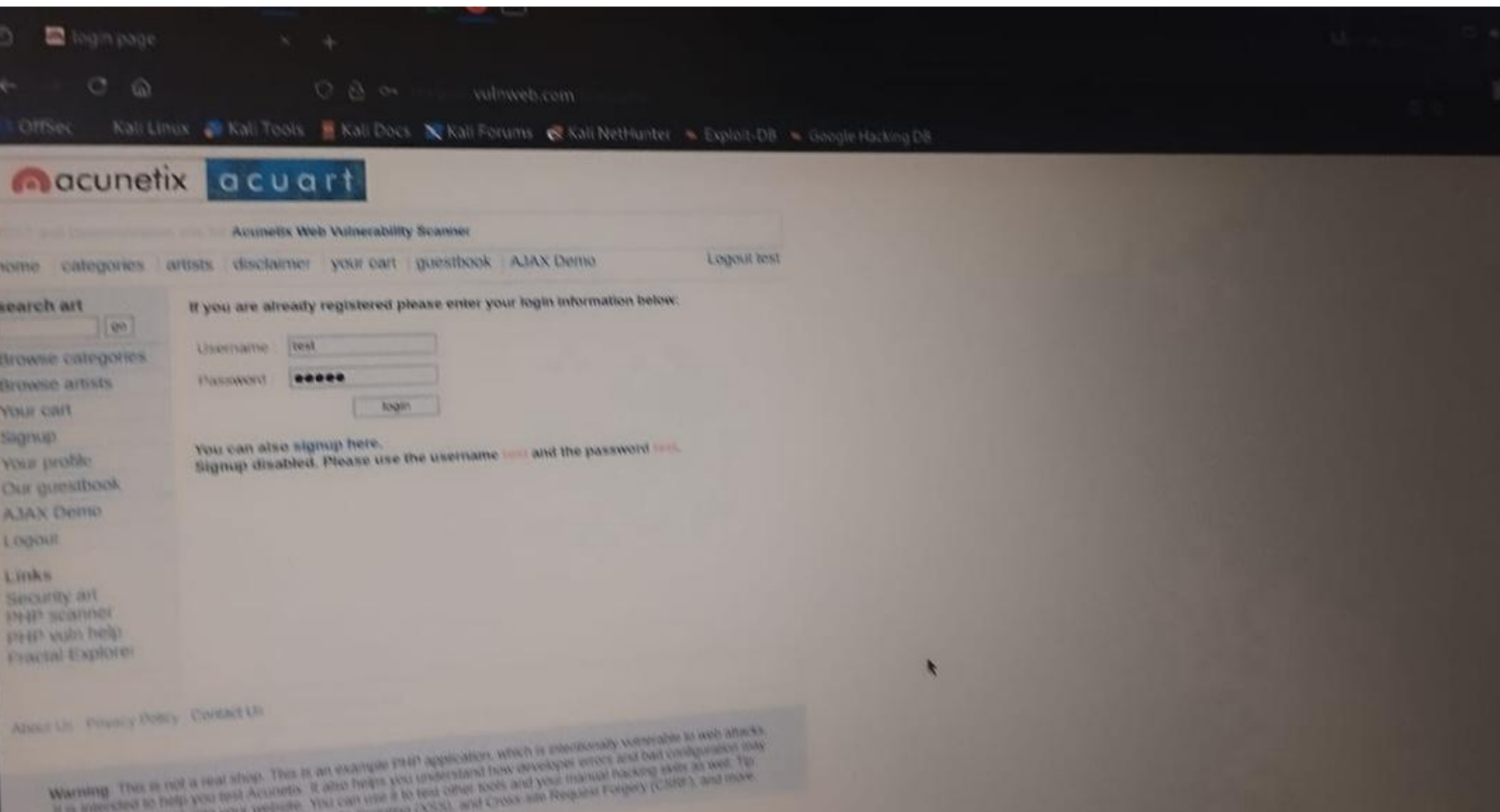
Step 3:

Open Browser and go to
<http://testphpvulnweb.com>
and click signup



Step 4:

go to login page .
Enter any dummy user name and
password



Step 5:

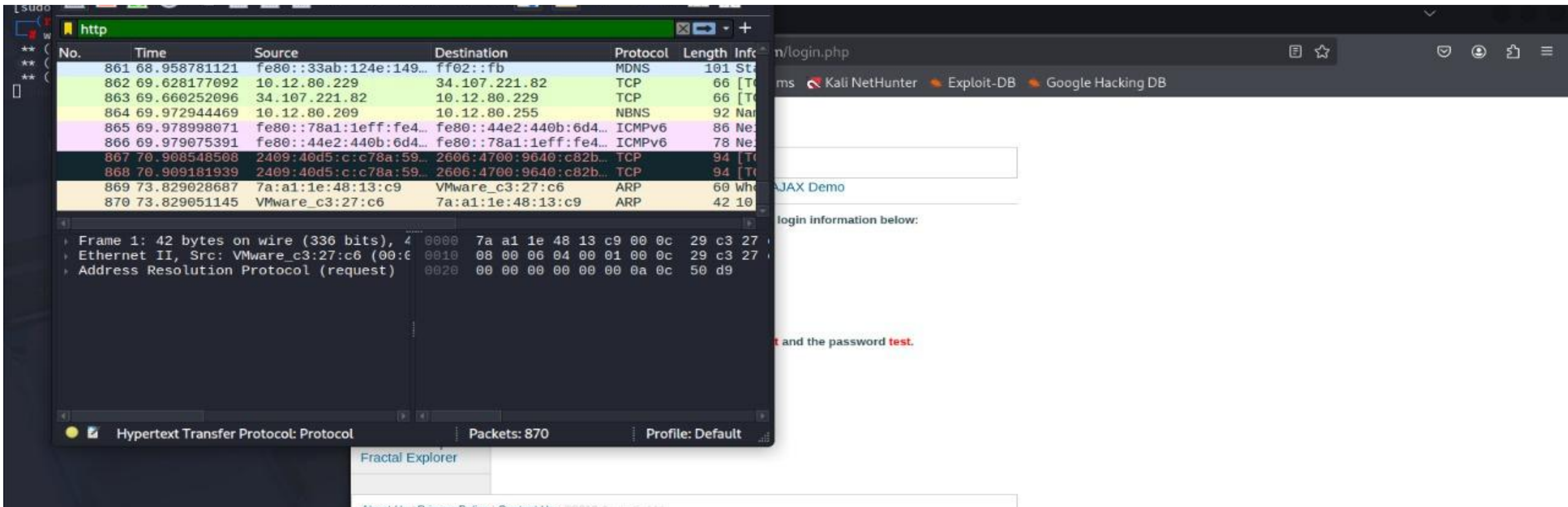
Go back in **Wireshark**

apply filter (ctrl F)

Select `http.request.method == "POST"`

Or

Type `http` in filter



Step 6

Right -click on the POST packets -

>

follow → HTTP Stream.

We will get user name and password in the plain text

Telephony Wireless Tools Help

*eth0

Destination	Protocol	Length	Info
34.107.221.82	HTTP	364	GET /success.txt?ipv4 HTTP/1.1
192.168.222.129	HTTP	270	HTTP/1.1 200 OK (text/plain)
44.228.249.3	HTTP	420	GET / HTTP/1.1
192.168.222.129	HTTP	160	HTTP/1.1 200 OK (text/html)
44.228.249.3	HTTP	389	GET /style.css HTTP/1.1
44.228.249.3	HTTP	449	GET /images/logo.gif HTTP/1.1
44.228.249.3	HTTP	467	GET /login.php HTTP/1.1
192.168.222.129	HTTP	347	HTTP/1.1 200 OK (text/html)
44.228.249.3	HTTP	602	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
192.168.222.129	HTTP	330	HTTP/1.1 302 Found (text/html)
44.228.249.3	HTTP	476	GET /login.php HTTP/1.1
192.168.222.129	HTTP	347	HTTP/1.1 200 OK (text/html)
44.228.249.3	HTTP	607	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
192.168.222.129	HTTP	330	HTTP/1.1 302 Found (text/html)
44.228.249.3	HTTP	476	GET /login.php HTTP/1.1
192.168.222.129	HTTP	347	HTTP/1.1 200 OK (text/html)
44.228.249.3	HTTP	605	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
192.168.222.129	HTTP	330	HTTP/1.1 302 Found (text/html)

), 607 bytes captured (4856 bits) on interface eth0, c:29:06:a5:d8), Dst: VMware_f3:af:d8 (00:50:56:f3:af:68.222.129, Dst: 44.228.249.3 : 44408, Dst Port: 80, Seq: 1384, Ack: 5823, Len: 553

w-form-urlencoded

0120 53 2c 65 6e 3b 71 3d 30 2e 3
0130 70 74 2d 45 6e 63 6f 64 69 6
0140 70 2c 20 64 65 66 6c 61 74 6
0150 65 6e 74 2d 54 79 70 65 3a 2
0160 61 74 69 6f 6e 2f 78 2d 77 7
0170 2d 75 72 6c 65 6e 63 6f 64 6
0180 74 65 6e 74 2d 4c 65 6e 67 7
0190 0a 4f 72 69 67 69 6e 3a 20 6
01a0 74 65 73 74 70 68 70 2e 76 7
01b0 63 6f 6d 0d 0a 43 6f 6e 6e 6
01c0 20 6b 65 65 70 2d 61 6c 69 7
01d0 65 72 65 72 3a 20 68 74 74 7
01e0 74 70 68 70 2e 76 75 6c 6e 7
01f0 2f 6c 6f 67 69 6e 2e 70 68 7
0200 69 65 3a 20 6c 6f 67 69 6e 3
0210 46 74 65 73 74 0d 0a 55 70 6
0220 6e 73 65 63 75 72 65 2d 52 6
0230 3a 20 31 0d 0a 50 72 69 6f 7
0240 3d 30 2c 20 69 0d 0a 0d 0a 7
0250 68 61 6e 69 26 70 61 73 73 3

Frame 281: 606 bytes on wire (4848 bits), 606 bytes captured (4848 bits) on interface eth0, Src: VMware_2c:8f:e3 (00:0c:29:2c:8f:e3), Dst: VMware_f8:1e:91 (00:50:56:f8:1e:91), Src: 192.168.61.128, Dst: 44.228.249.3, Seq: 1197, Ack: 1197, Len: 553

Hypertext Transfer Protocol

HTML Form URL Encoded: application/x-www-form-urlencoded

- Form item: "uname" = "test"
- Form item: "pass" = "12345"

THANK YOU