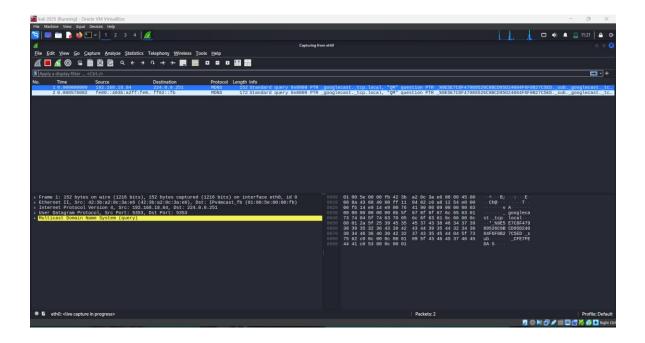
Wireshark Packet Capture Report

This report documents the process of capturing and analyzing network traffic using Wireshark on Kali Linux. Each step includes a screenshot and explanation for better understanding.

Step 1: Opening Wireshark

In this step, Wireshark is launched on Kali Linux. The main interface shows the available network interfaces that can be monitored.

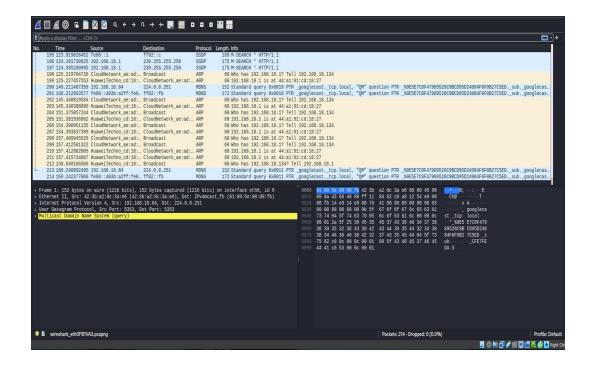


After that I ping to ping 8.8.8.8 (Google)

```
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=118 time=34.5 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=118 time=24.1 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=118 time=72.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=118 time=24.6 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=118 time=21.0 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=118 time=38.6 ms
   bytes from 8.8.8.8: icmp_seq=7 ttl=118 time=41.8 ms
   bytes from 8.8.8.8: icmp_seq=8 ttl=118 time=25.9
64 bytes from 8.8.8.8: icmp_seq=9 ttl=118 time=23.2 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=118 time=26.4 ms
   bytes from 8.8.8.8: icmp_seq=11 ttl=118 time=25.7 ms
   bytes from 8.8.8.8: icmp_seq=12 ttl=118
                                                time=19.9 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=118 time=25.7
64 bytes from 8.8.8.8: icmp_seq=14 ttl=118 time=21.2 ms
64 bytes from 8.8.8.8: icmp_seq=15 ttl=118 time=23.7 ms
64 bytes from 8.8.8.8: icmp_seq=16 ttl=118 time=28.3 ms
64 bytes from 8.8.8.8: icmp_seq=17 ttl=118 time=20.5
64 bytes from 8.8.8.8: icmp_seq=18 ttl=118 time=21.0 ms
64 bytes from 8.8.8.8: icmp_seq=19 ttl=118 time=23.2 ms
64 bytes from 8.8.8.8: icmp_seq=20 ttl=118 time=31.2 ms
64 bytes from 8.8.8.8: icmp_seq=21 ttl=118 time=20.4
64 bytes from 8.8.8.8: icmp_seq=22 ttl=118 time=21.4 64 bytes from 8.8.8.8: icmp_seq=23 ttl=118 time=22.5
64 bytes from 8.8.8.8: icmp_seq=24 ttl=118 time=25.0
64 bytes from 8.8.8.8: icmp_seq=25 ttl=118 time=30.9
64 bytes from 8.8.8.8: icmp_seq=26 ttl=118
                                                time=32.6
64 bytes from 8.8.8.8: icmp_seq=27 ttl=118 time=22.6
64 bytes from 8.8.8.8: icmp_seq=28 ttl=118 time=21.4 64 bytes from 8.8.8.8: icmp_seq=29 ttl=118 time=21.7
64 bytes from 8.8.8.8: icmp_seq=30 ttl=118
                                                time=27.8
64 bytes from 8.8.8.8: icmp_seq=31 ttl=118 time=50.8
64 bytes from 8.8.8.8: icmp_seq=32 ttl=118 time=21.1 ms
64 bytes from 8.8.8.8: icmp_seq=33 ttl=118 time=28.3 ms
64 bytes from 8.8.8.8: icmp_seq=34 ttl=118 time=32.3 ms
64 bytes from 8.8.8.8: icmp_seq=35 ttl=118 time=39.0
64 bytes from 8.8.8.8: icmp_seq=36 ttl=118 time=31.0
64 bytes from 8.8.8.8: icmp_seq=37 ttl=118 time=22.3
64 bytes from 8.8.8.8: icmp_seq=38 ttl=118 time=21.4
64 bytes from 8.8.8.8: icmp_seq=39 ttl=118 time=26.5
64 bytes from 8.8.8.8: icmp_seq=40 ttl=118 time=20.9
64 bytes from 8.8.8.8: icmp_seq=41 ttl=118 time=21.9
64 bytes from 8.8.8.8: icmp_seq=42 ttl=118 time=23.5
64 bytes from 8.8.8.8: icmp_seq=43 ttl=118 time=28.0
64 bytes from 8.8.8.8: icmp_seq=44 ttl=118 time=25.2 ms
64 bytes from 8.8.8.8: icmp_seq=45 ttl=118 time=36.8
64 bytes from 8.8.8.8: icmp_seq=46 ttl=118 time=27.2 ms
64 bytes from 8.8.8.8: icmp_seq=47 ttl=118 time=20.1
64 bytes from 8.8.8.8: icmp_seq=48 ttl=118 time=24.3 ms
64 bytes from 8.8.8.8: icmp_seq=49 ttl=118 time=20.8 ms
 `C
    8.8.8.8 ping statistics
49 packets transmitted, 49 received, 0% packet loss, time 48114ms rtt min/avg/max/mdev = 19.913/27.360/72.557/9.142 ms
```

Step 2: Starting Packet Capture

The active network interface (such as eth0 or wlan0) is selected, and the 'Start Capturing Packets' button is clicked to begin capturing live network traffic.



Step 3: Filtering Traffic by Protocol

After capturing data, filters such as 'HTTP', 'DNS', or ICMP' are applied to view only relevant packets. This helps in focusing on specific network activities.

9	K111hA0 18808888	192.168.18,171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=43/11008,	ttl=64 (reply in 2)
←	2 0.024837540	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=43/11008,	ttl=118 (request in 1)
	3 1.000965517	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=44/11264,	ttl=64 (reply in 4)
	4 1.021084940	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=44/11264,	ttl=118 (request in 3)
	5 2.003943818	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=45/11520,	ttl=64 (reply in 6)
	6 2.025713841	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=45/11520,	ttl=118 (request in 5)
	7 3.005600551	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=46/11776,	ttl=64 (reply in 8)
	8 3.028117515	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=46/11776,	ttl=118 (request in 7)
	9 4.009157749	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=47/12032,	ttl=64 (reply in 10)
	10 4.035694180	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=47/12032,	ttl=118 (request in 9)
	11 5.011894049	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=48/12288,	ttl=64 (reply in 12)
	12 5.034093873	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=48/12288,	ttl=118 (request in 11)
	13 6.013964132	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=49/12544,	ttl=64 (reply in 14)
	14 6.035652293	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=49/12544,	ttl=118 (request in 13)
	16 7.016216782	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=50/12800,	ttl=64 (reply in 17)
	17 7.039261763	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=50/12800,	ttl=118 (request in 16)
	18 8.017790025	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request	id=0x0003,	seq=51/13056,	ttl=64 (reply in 19)
	19 8.056868688	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=51/13056,	ttl=118 (request in 18)
	20 9.020059158	192.168.18.171	8.8.8.8	ICMP	100 Echo (ping) request			
	21 9.041311689	8.8.8.8	192.168.18.171	ICMP	100 Echo (ping) reply	id=0x0003,	seq=52/13312,	ttl=118 (request in 20)
	00.40.0000004.14	400 400 40 474	0.0.0.0	TOND	Ann Fala (alan) annuna	:1-0.0000		Aklant family in ON

Step 4: Viewing Packet Details

A selected packet is expanded to show detailed protocol layers (Ethernet, IP, TCP/UDP, etc.) along with data. This allows for in-depth analysis of communication between devices.

	AND		AND THE PROPERTY OF THE PROPER
15 6 . 594130934	Cloudketnork_aeradt	AP.	62 Mho has 192 166 16 17 Tell 192 166 16 134
43 20.048858312	PCSSystemtec_3c:2a:	ARP	44 Who has 192.166.16.1? Tell 192.166.16.171
44 20.052109020	HuaweiTechno_cd:18:	ARP	62 192.160.18.1 is at 44:a1:91:od:18:27
58 26.797863465	Cloudletwork_ae:ad:	ARP	62 Who has 192.160.10.12 Tell 192.160.10.134
69 31.734673621	Cloudletwork_ae:ad:	ARP	62 Who has 192.160.10.12 Tell 192.160.10.134
74 43,499493826	42:3b:a2:0c:3a:e6	ARP	62 kNo has 192.166.16.1? Tell 192.166.16.84
75 48.831965669	Cloudletwork_ae:ad:_	ARP	62 Who has 192.166.16.1? Tell 192.166.16.134
76 52.851395625	Cloudletwork_ae:ad:	ARP	62 kNo has 192.166.18.1? Tell 192.166.18.134
77 56.871902647	Cloudletwork_ae:ad:	ARP	62 Who has 192.160.10.12 Tell 192.160.10.134
78 72.965168755	Cloudletwork_aerad:	ARP	62 kNo has 192.160.10.1? Tell 192.160.10.134
79 85.831118481	Cloudletwork_ae:ad:	ARP	62 Who has 192.166.16.1? Tell 192.166.16.134
80 89.053448777	Cloudletwork_ae:ad:	ARP	62 N/m has 192,160,18,17 Tell 192,160,18,134

Conclusion

The above steps demonstrate how to use Wireshark for basic packet capturing and protocol analysis. Through this exercise, we identified different types of traffic and learned to filter and inspect packets in detail.