

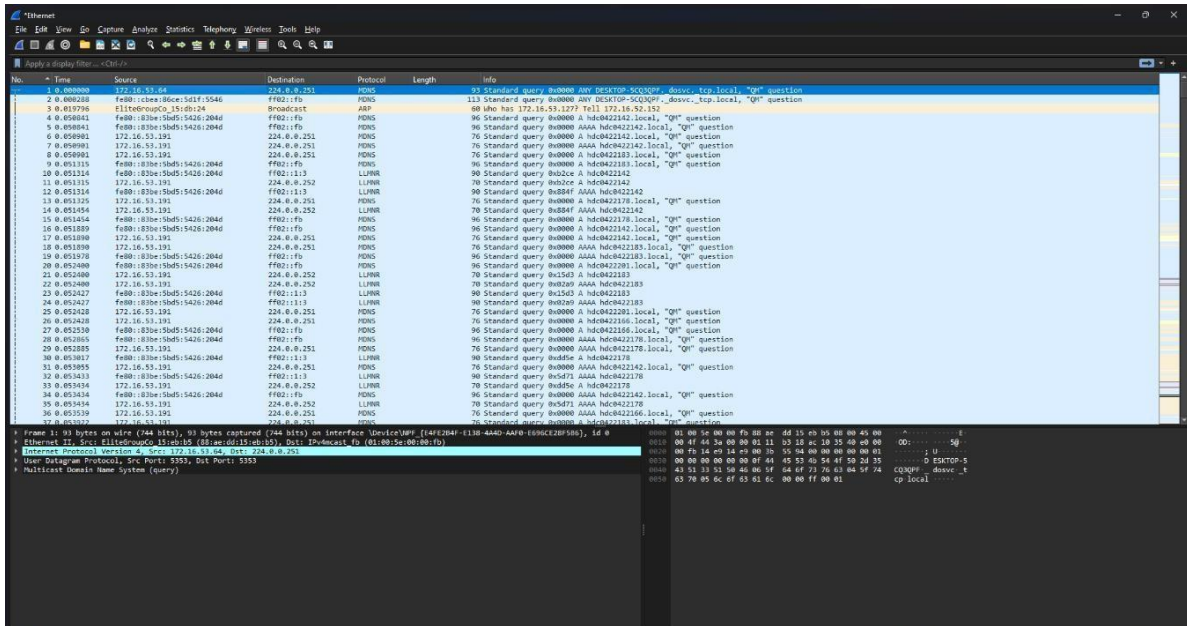
Ex. No 14

Wireshark

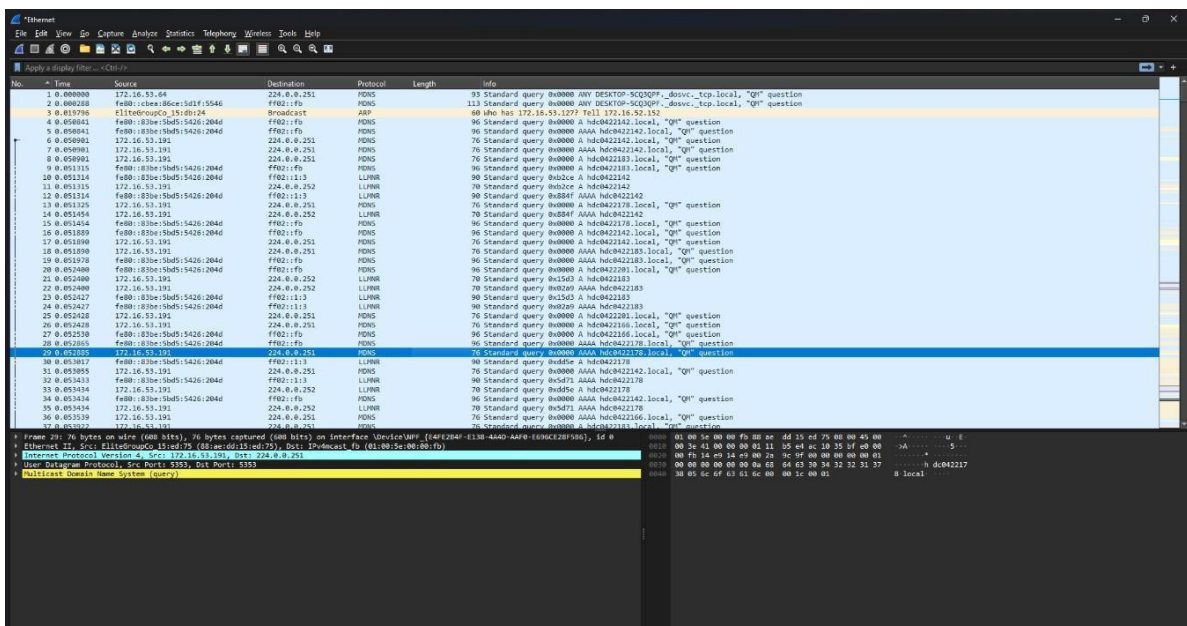
AIM: - Experiments on Packet capture tool: Wireshark

CAPTURING AND ANALYSING PACKETS USING WIRESHARK TOOL:

Packet 1:



Packet 2:



Packet 3:

No.	Time	Source	Destination	Protocol	Length	Info
10	0.051314	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x02ce A h0c0422142
11	0.051315	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x02ce A h0c0422142
12	0.051314	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x02af AAAA h0c0422142
13	0.051325	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422178.local, "QI" question
14	0.051324	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x00af AAAA h0c0422142
15	0.051454	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422178.local, "QI" question
16	0.051809	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
17	0.051809	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422142.local, "QI" question
18	0.051809	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
19	0.051978	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
20	0.052400	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422201.local, "QI" question
21	0.052400	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x15d3 A h0c0422193
22	0.052400	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x02af AAAA h0c0422183
23	0.052427	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x15d3 A h0c0422193
24	0.052427	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x02af AAAA h0c0422183
25	0.052428	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422201.local, "QI" question
26	0.052428	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422166.local, "QI" question
27	0.052539	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422186.local, "QI" question
28	0.052805	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
29	0.052805	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
30	0.053017	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0d5e A h0c0422178
31	0.053015	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422142.local, "QI" question
32	0.053433	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x5d71 AAAA h0c0422178
33	0.053434	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0d5e A h0c0422178
34	0.053434	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422142.local, "QI" question
35	0.053434	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x5d71 AAAA h0c0422178
36	0.053539	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422166.local, "QI" question
37	0.053722	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422183.local, "QI" question
38	0.053933	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422166.local, "QI" question
39	0.053933	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422183.local, "QI" question
40	0.053933	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0000 A h0c0422166
41	0.054083	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0000 AAAA h0c0422166
42	0.054333	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x5b0b AAAA h0c0422166
43	0.054333	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
44	0.054339	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x5b0b AAAA h0c0422166
45	0.054351	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
46	0.054812	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422201.local, "QI" question

Frame 32: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface DeviceVM (14f1204f-1130-4440-AA06-69696C20F586), id 0

Ethernet II, Src: IntelE80000_01:00:03:00:00:03 (08:00:00:01:00:00:03), Dst: IPMulticast_01:00:03 (33:33:00:01:00:00:03)

Internet Protocol Version 4, Src: 172.16.53.191, Dst: 224.0.0.251

User Datagram Protocol, Src Port: 61283, Dst Port: 5355

Link-local Multicast Name Resolution (query)

Packet 4:

No.	Time	Source	Destination	Protocol	Length	Info
28	0.053265	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
29	0.053285	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
30	0.053827	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0d5e A h0c0422178
31	0.053855	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422142.local, "QI" question
32	0.053433	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x5d71 AAAA h0c0422178
33	0.053434	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0d5e A h0c0422178
34	0.053434	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422142.local, "QI" question
35	0.053534	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x5d71 AAAA h0c0422178
36	0.053739	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422166.local, "QI" question
37	0.053922	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422183.local, "QI" question
38	0.053933	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
39	0.053933	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422166.local, "QI" question
40	0.053933	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0000 A h0c0422166
41	0.054083	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0000 AAAA h0c0422166
42	0.054333	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x5b0b AAAA h0c0422166
43	0.054333	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
44	0.054339	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x5b0b AAAA h0c0422166
45	0.054351	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
46	0.054432	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
47	0.054803	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
48	0.054803	fe80::83be:5b0d:5426:204d	ff02::1:1	LWMR	90	Standard query 0x0000 AAAA h0c0422201
49	0.054803	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422166.local, "QI" question
50	0.054804	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0000 A h0c0422201
51	0.054804	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422183.local, "QI" question
52	0.054804	172.16.53.191	224.0.0.252	LWMR	70	Standard query 0x0000 AAAA h0c0422201
53	0.054818	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422178.local, "QI" question
54	0.055217	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 A h0c0422178.local, "QI" question
55	0.055248	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422178.local, "QI" question
56	0.055248	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
57	0.055539	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422166.local, "QI" question
58	0.055571	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
59	0.055939	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 A h0c0422201.local, "QI" question
60	0.056381	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422178.local, "QI" question
61	0.056381	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
62	0.056381	fe80::83be:5b0d:5426:204d	ff02::1:f	PENS	96	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
63	0.056385	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422201.local, "QI" question
64	0.056397	172.16.53.191	224.0.0.251	PENS	76	Standard query 0x0000 AAAA h0c0422201.local, "QI" question

Frame 56: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface DeviceVM (14f1204f-1130-4440-AA06-69696C20F586), id 0

Ethernet II, Src: IntelE80000_01:00:03:00:00:03 (08:00:00:01:00:00:03), Dst: IPMulticast_01:00:03 (33:33:00:01:00:00:03)

Internet Protocol Version 4, Src: 172.16.53.191, Dst: 224.0.0.251

User Datagram Protocol, Src Port: 5355, Dst Port: 5353

NiXistat Domain Name System (query)

Packet 5:

[illegible]

RESULT: -

Capturing and analysing the packets have been done successfully using Wireshark.