

Lab Exercise 3: Wireshark Installation and Introduction

1. 74 bytes
2. Destination: 1a:e8:29:53:a6:a0, Source: dc:1b:a1:45:2c:ca
3. IntelCor
4. Type: IPv4 (0x0800)
5. 0100 = Version: 4, Header Length: 20 bytes (5)
6. Source Address: 192.168.157.121, Destination Address: 23.93.76.124
7. Type: 8 (Echo (ping) request), Type: 0 (Echo (ping) reply)

The image shows a Wireshark network traffic capture. The top pane displays a list of captured packets. Packet 3322 is selected, showing it is an ICMP Echo (ping) reply from 192.168.157.121 to 23.93.76.124. The bottom pane shows the detailed view of this packet, including the Ethernet II header, Internet Protocol Version 4 header, and Internet Control Message Protocol (ICMP) header. The ICMP header indicates it is a Type 0 (Echo (ping) reply) with a sequence number of 14356. The packet length is 74 bytes.

No.	Time	Source	Destination	Protocol	Length	Info
3317	40.296435	192.168.157.210	224.0.0.251	MDNS	309	Standard query response 0x0000 PTR 7strange7::DESKTOP-30UIQNV._oculusal_sp._tcp.local SRV 0 0 49735 DESK...
3318	40.651293	192.168.157.121	172.217.12.14	UDP	75	64195 → 443 Len=33
3319	40.776303	172.217.12.14	192.168.157.121	UDP	76	443 → 64195 Len=34
3320	41.318754	192.168.157.123	255.255.255.255	UDP	230	57219 → 6667 Len=188
3321	41.790022	192.168.157.121	23.93.76.124	ICMP	74	Echo (ping) request id=0x0001, seq=5176/14356, ttl=128 (reply in 3322)
3322	41.893596	23.93.76.124	192.168.157.121	ICMP	74	Echo (ping) reply id=0x0001, seq=5176/14356, ttl=52 (request in 3321)
3323	42.249870	fe80::c992:f237:450... ff02::fb	ff02::fb	MDNS	103	Standard query 0x0000 PTR _oculusal_sp._tcp.local, "QM" question
3324	42.251660	fe80::c992:f237:450... ff02::fb	ff02::fb	MDNS	329	Standard query response 0x0000 PTR 7strange7::DESKTOP-30UIQNV._oculusal_sp._tcp.local SRV 0 0 49735 DESK...

> Frame 3322: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{8DEC3C4E-EEC6-480D-B3CD-090C3C485287}, id 0
> Ethernet II, Src: 1a:e8:29:53:a6:a0 (1a:e8:29:53:a6:a0), Dst: IntelCor_45:2c:ca (dc:1b:a1:45:2c:ca)
v Internet Protocol Version 4, Src: 23.93.76.124, Dst: 192.168.157.121
0100 = Version: 4
.... 0101 = Header Length: 20 bytes (5)
> Differentiated Services Field: 0xc0 (DSCP: CS6, ECN: Not-ECT)
Total Length: 60
Identification: 0xa5eb (42475)
> 000. = Flags: 0x0
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 52
Protocol: ICMP (1)
Header Checksum: 0x1e1b [validation disabled]
[Header checksum status: Unverified]
Source Address: 23.93.76.124
Destination Address: 192.168.157.121
v Internet Control Message Protocol
Type: 0 (Echo (ping) reply)
Code: 0
Checksum: 0x4123 [correct]
[Checksum Status: Good]
Identifier (BE): 1 (0x0001)
Identifier (LE): 256 (0x0100)
Sequence Number (BE): 5176 (0x1438)
Sequence Number (LE): 14356 (0x3814)
[\[Request frame: 3321\]](#)
[Response time: 103.574 ms]
> Data (32 bytes)

8. Header length in 32-bit words (p.hdr_len), 1 byte | Packets: 3382 · Displayed: 3382 (100.0%) · Dropped: 0 (0.0%) | Profile: Default