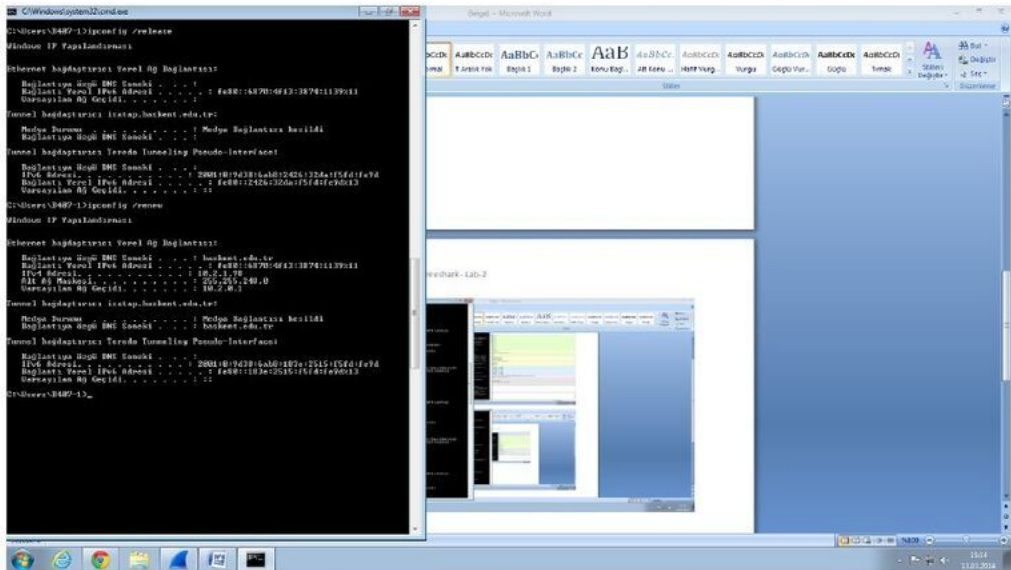
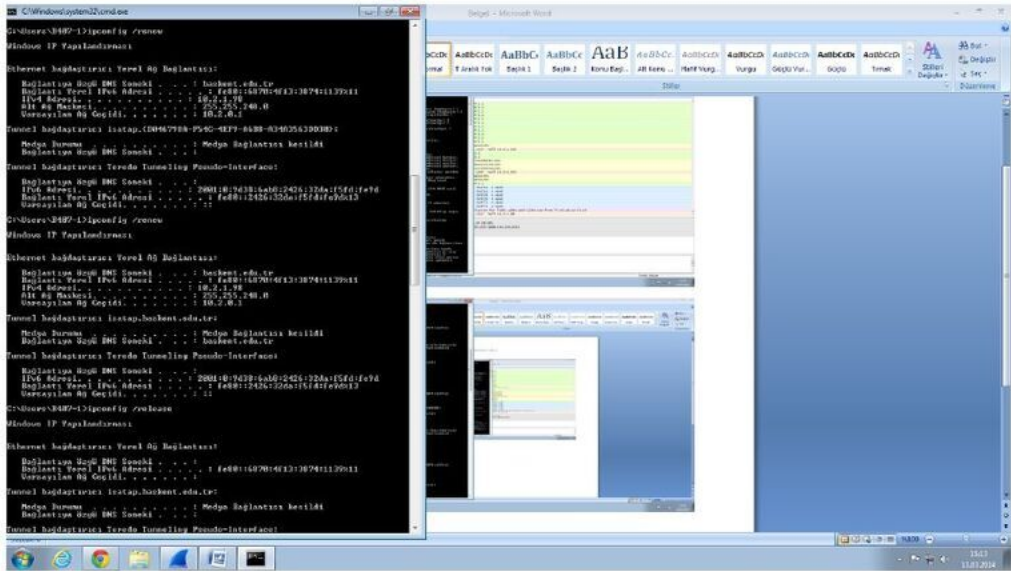




Başkent Üniversitesi
Elektrik - Elektronik Mühendisliği Bölümü

EEM 438



Bootp:

The image shows two screenshots of Wireshark capturing network traffic. The top screenshot shows a list of packets, with the selected packet being a BOOTP request. The bottom screenshot shows the details of the selected packet, which is a BOOTP response. The response contains fields for hardware address, IP address, and other network parameters.

Packet 1: BOOTP Request

No.	Time	Source	Destination	Protocol	Length	Info
199	0.015101000	10.2.2.192	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x6f190f4b
218	10.284198000	10.2.0.88	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x621a3cc3
205	11.061014000	10.2.0.198	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x2c19d05
484	20.872918000	10.2.0.1	255.255.255.255	DHCP	339	DHCP Inform - Transaction ID 0x397f8081
529	21.453119000	10.2.1.98	10.0.1.1	DHCP	342	DHCP Release - Transaction ID 0x6f190f4b
790	26.139616000	10.2.3.252	255.255.255.255	DHCP	340	DHCP Inform - Transaction ID 0x94c8a8f1
816	27.079164000	10.2.4.119	255.255.255.255	DHCP	338	DHCP Inform - Transaction ID 0x6e7f28ac
826	27.467164000	10.2.0.110	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x39af7809
1277	32.431819000	10.2.1.213	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0x6e9a3c3d
1637	34.139509000	10.2.4.200	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x6e815f6d
1777	35.354169000	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x2f9f2289
1780	35.361134000	0.0.0.0	10.2.1.98	DHCP	350	DHCP Offer - Transaction ID 0x2f9f2289
1782	35.363134000	0.0.0.0	255.255.255.255	DHCP	350	DHCP Request - Transaction ID 0x2f9f2289
2462	38.604170000	10.0.1.98	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0x6a4a3074e
2472	38.621998000	10.0.1.1	10.2.1.98	DHCP	352	DHCP ACK - Transaction ID 0x6a4a3074e
3060	42.184155000	10.2.0.176	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0x6a8deecf
4075	50.361863000	10.2.0.247	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x2130a09d
4281	51.479188000	10.2.0.124	255.255.255.255	DHCP	338	DHCP Inform - Transaction ID 0x76711442
4538	54.681304000	10.0.1.1	10.0.1.1	DHCP	343	DHCP Request - Transaction ID 0x6f00c4cf
4539	54.683304000	10.0.1.1	10.0.1.1	DHCP	343	DHCP ACK - Transaction ID 0x6f00c4cf
4984	70.830400000	10.2.1.23	255.255.255.255	DHCP	348	DHCP Inform - Transaction ID 0x6f46ff79
4988	73.792379000	10.2.2.192	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0x6f50d250
5000	74.077164000	10.2.1.42	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x6c9b45f6
5041	74.054817000	10.2.1.98	10.0.1.1	DHCP	342	DHCP Release - Transaction ID 0x6f190f4b
5120	77.091461000	10.2.0.218	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0x6a1174e
5741	81.098117000	10.0.0.90	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x392f78f9
6605	85.947154000	10.2.0.249	255.255.255.255	DHCP	336	DHCP Inform - Transaction ID 0x6e931e33
6692	86.599815000	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x6f3a4732
6693	86.607197000	0.0.0.0	10.2.1.98	DHCP	305	DHCP Offer - Transaction ID 0x6f3a4732

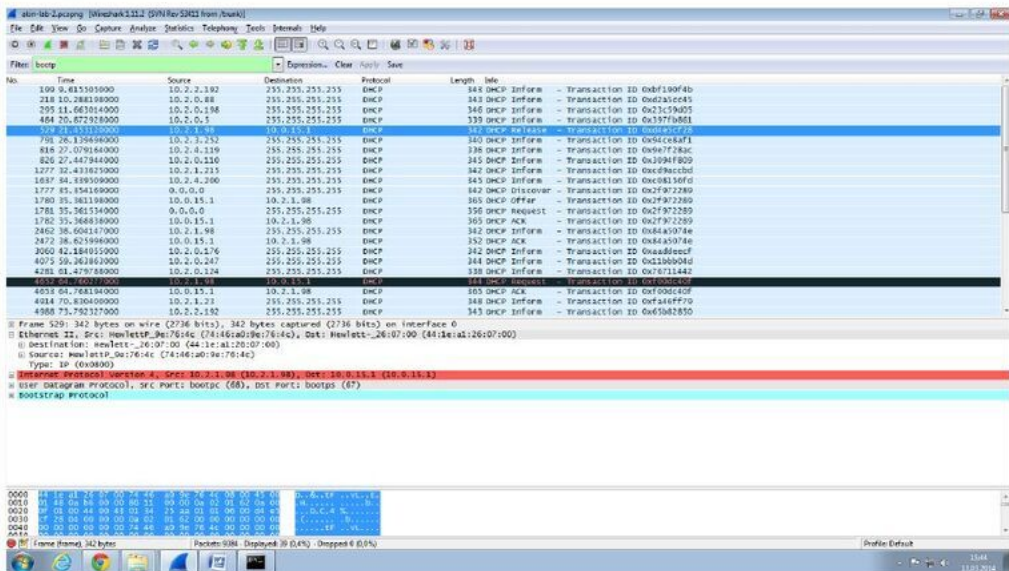
Packet 2: BOOTP Response

Frame 529: 342 bytes on wire (2736 bits), 342 bytes captured (2736 bits) on interface 0
 Ethernet II, Src: Hewlett-Packard [8:0:0:0:0:0], Dst: Hewlett-Packard [8:0:0:0:0:0]
 Internet Protocol Version 4, Src: 10.0.1.1, Dst: 10.2.1.98
 User Datagram Protocol, Src Port: bootps (67), Dst Port: bootpc (68)
 BOOTP Protocol

0000 74 65 40 94 74 65 40 94 26 07 00 08 00 45 00 TP, vLd, 4.....E..
 0010 94 3f 23 45 99 00 7f 23 45 88 08 00 0f 02 0a 02 ..P.....
 0020 01 02 00 01 04 03 04 01 00 01 00 00 00 00 00 ..S.....
 0030 22 89 00 00 00 00 00 00 00 00 00 00 00 00 ..B.....
 0040 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..V.....
 0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 00f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0110 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 01f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0200 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0210 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0220 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0230 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0240 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0250 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0260 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0270 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0280 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0290 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 02f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0300 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0310 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0320 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0340 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 03c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 03d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 03e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 03f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0460 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0470 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0480 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0490 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 04f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0500 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0510 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0520 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0530 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0550 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 05a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 05b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 05c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 05d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 05e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 05f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0600 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0610 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 06b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 06c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 06d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 06e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 06f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0700 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0710 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0770 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0780 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0790 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 07a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 07b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 07c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 07d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 07e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0800 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0820 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0840 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0890 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 08f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0900 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0910 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0920 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0930 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0940 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0950 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
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 0980 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 0990 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 09a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 09b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 09c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....
 09d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..P.....<

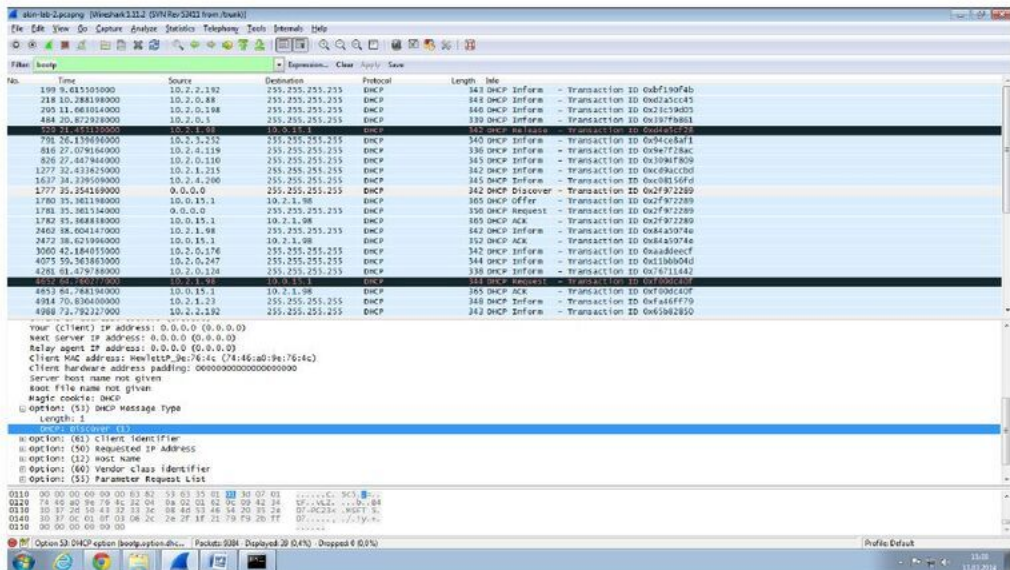


2-67,68 port numaraları kullanılmıştır. Herkeste aynı port numaraları gözükmektedir.

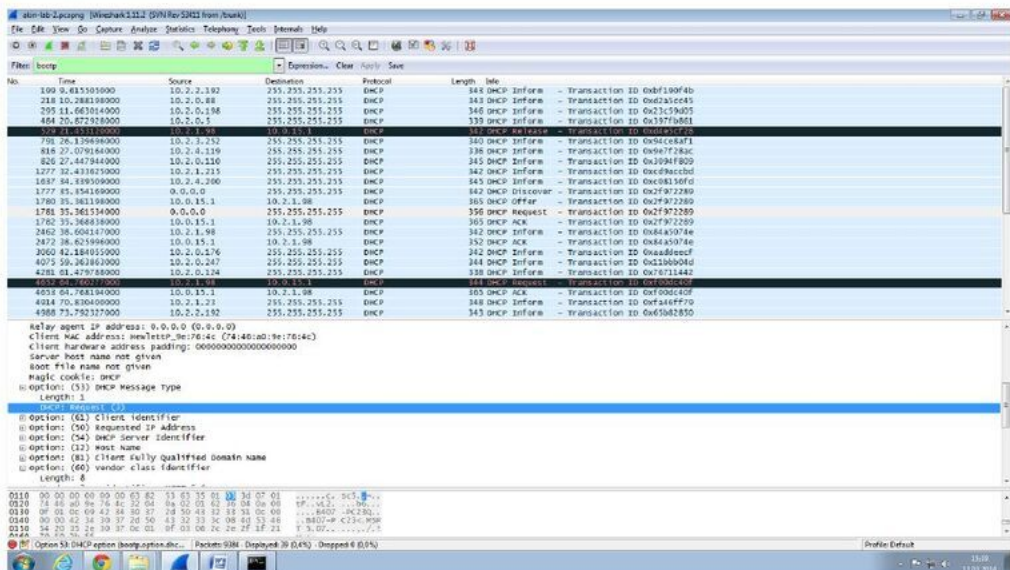


3-Mac adresim :

Ethernet II, Src: HewlettP_9e:76:4c (74:46:a0:9e:76:4c), Dst: Broadcast (ff:ff:ff:ff:ff:ff)



Şekil-a



Şekil-b

4-Bunlar broadcast olarak yayınlanan mesajlardır farklı olarak tek fark mesaj tipleridir. Şekil-a)

DHCP:Release

Şekil-b) DHCP: Request

No.	Time	Source	Destination	Protocol	Length	Info
199	0.615305000	10.2.2.192	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xbcf90f4b
218	10.288198000	10.2.0.88	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xd2a5cc45
295	11.681014000	10.2.0.108	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x23c5b0b5
484	20.872928000	10.2.0.5	255.255.255.255	DHCP	339	DHCP Inform - Transaction ID 0x39f7b061
529	21.453120000	10.2.1.98	10.0.15.1	DHCP	342	DHCP Release - Transaction ID 0x04e1cf28
791	26.139496000	10.2.3.212	255.255.255.255	DHCP	340	DHCP Inform - Transaction ID 0xb94c8af1
816	27.079164000	10.2.0.119	255.255.255.255	DHCP	336	DHCP Inform - Transaction ID 0xb9e7728c
826	27.447944000	10.2.0.110	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x3094f809
1277	32.433625000	10.2.1.215	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xc09acdbd
1637	34.339590000	10.2.0.200	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xc08356fd
1772	35.351120000	0.0.0.0	255.255.255.255	DHCP	314	DHCP Discover - Transaction ID 0x2f972289
1780	35.361198000	10.0.15.1	10.2.1.98	DHCP	365	DHCP Offer - Transaction ID 0x2f972289
1781	35.361340000	0.0.0.0	255.255.255.255	DHCP	356	DHCP Request - Transaction ID 0x2f972289
1782	35.368818000	10.0.15.1	10.2.1.98	DHCP	365	DHCP ACK - Transaction ID 0x2f972289
2463	38.604170000	10.2.1.98	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xb84a5074e
2472	38.621996000	10.0.15.1	10.2.1.98	DHCP	352	DHCP ACK - Transaction ID 0xb84a5074e
3060	42.184055000	10.2.0.176	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xaaddeecf
4075	59.363863000	10.2.0.247	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x1bb0b0dd
4281	61.479780000	10.2.0.124	255.255.255.255	DHCP	338	DHCP Inform - Transaction ID 0x76711642
4529	62.920120000	10.0.15.1	10.0.15.1	DHCP	314	DHCP Request - Transaction ID 0x04e1cf28
4533	61.748198000	10.0.15.1	10.2.1.98	DHCP	365	DHCP ACK - Transaction ID 0x04e1cf28
4984	70.630400000	10.2.1.23	255.255.255.255	DHCP	348	DHCP Inform - Transaction ID 0xfaf6ff79
4988	73.792127000	10.2.1.192	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xfaf6ff79

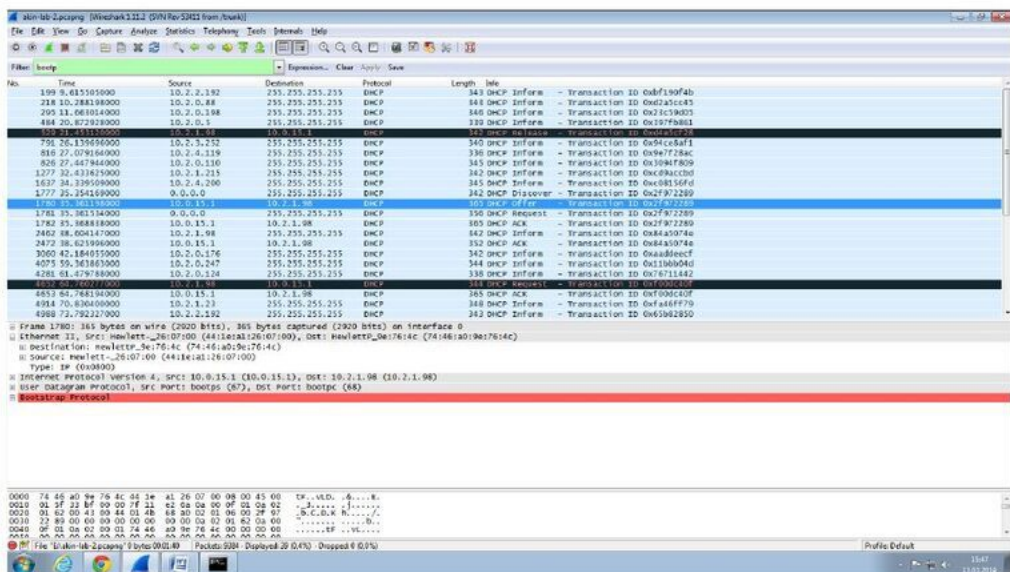
5-İsteklerin karışmaması için her isteme bir adet kod veriliyor. Böylece istek server tarafından anlaşılıyor ve karışmıyor.

Benim 4 lü aynı olan Transaction ID numaram: 0x2f972289

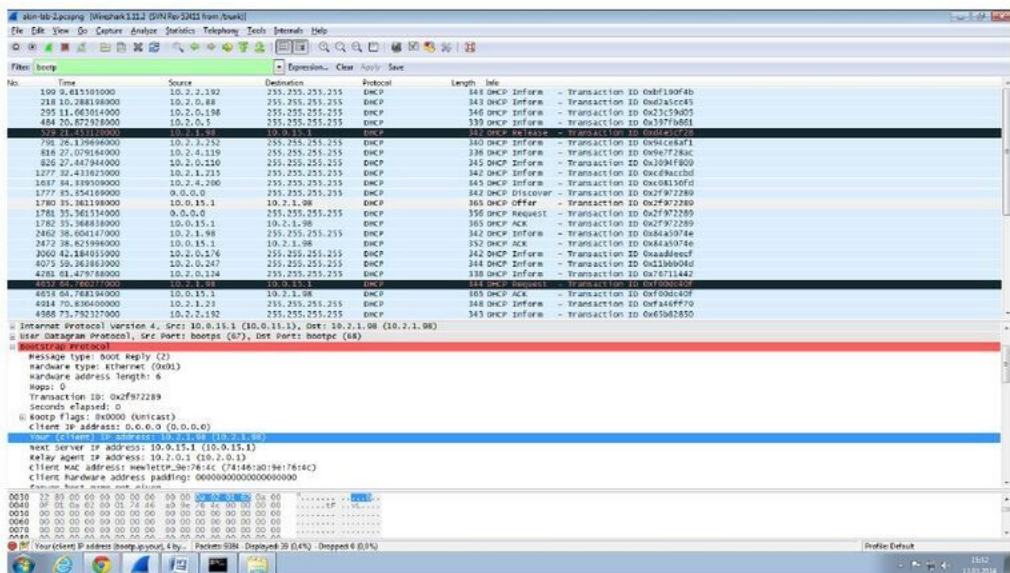
No.	Time	Source	Destination	Protocol	Length	Info
199	0.615305000	10.2.2.192	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xbcf90f4b
218	10.288198000	10.2.0.88	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xd2a5cc45
295	11.681014000	10.2.0.108	255.255.255.255	DHCP	346	DHCP Inform - Transaction ID 0x23c5b0b5
484	20.872928000	10.2.0.5	255.255.255.255	DHCP	339	DHCP Inform - Transaction ID 0x39f7b061
529	21.453120000	10.2.1.98	10.0.15.1	DHCP	342	DHCP Release - Transaction ID 0x04e1cf28
791	26.139496000	10.2.3.212	255.255.255.255	DHCP	340	DHCP Inform - Transaction ID 0xb94c8af1
816	27.079164000	10.2.0.119	255.255.255.255	DHCP	336	DHCP Inform - Transaction ID 0xb9e7728c
826	27.447944000	10.2.0.110	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0x3094f809
1277	32.433625000	10.2.1.215	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xc09acdbd
1637	34.339590000	10.2.0.200	255.255.255.255	DHCP	343	DHCP Inform - Transaction ID 0xc08356fd
1772	35.351120000	0.0.0.0	255.255.255.255	DHCP	314	DHCP Discover - Transaction ID 0x2f972289
1780	35.361198000	10.0.15.1	10.2.1.98	DHCP	365	DHCP Offer - Transaction ID 0x2f972289
1781	35.361340000	0.0.0.0	255.255.255.255	DHCP	356	DHCP Request - Transaction ID 0x2f972289
1782	35.368818000	10.0.15.1	10.2.1.98	DHCP	365	DHCP ACK - Transaction ID 0x2f972289
2463	38.604170000	10.2.1.98	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xb84a5074e
2472	38.621996000	10.0.15.1	10.2.1.98	DHCP	352	DHCP ACK - Transaction ID 0xb84a5074e
3060	42.184055000	10.2.0.176	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xaaddeecf
4075	59.363863000	10.2.0.247	255.255.255.255	DHCP	344	DHCP Inform - Transaction ID 0x1bb0b0dd
4281	61.479780000	10.2.0.124	255.255.255.255	DHCP	338	DHCP Inform - Transaction ID 0x76711642
4529	62.920120000	10.0.15.1	10.0.15.1	DHCP	314	DHCP Request - Transaction ID 0x04e1cf28
4533	61.748198000	10.0.15.1	10.2.1.98	DHCP	365	DHCP ACK - Transaction ID 0x04e1cf28
4984	70.630400000	10.2.1.23	255.255.255.255	DHCP	348	DHCP Inform - Transaction ID 0xfaf6ff79
4988	73.792127000	10.2.1.192	255.255.255.255	DHCP	342	DHCP Inform - Transaction ID 0xfaf6ff79

6-DHCP Discovery ve Request için destination adresi 255.255.255.255 source için 0.0.0.0 adresini kullanmaktadır.

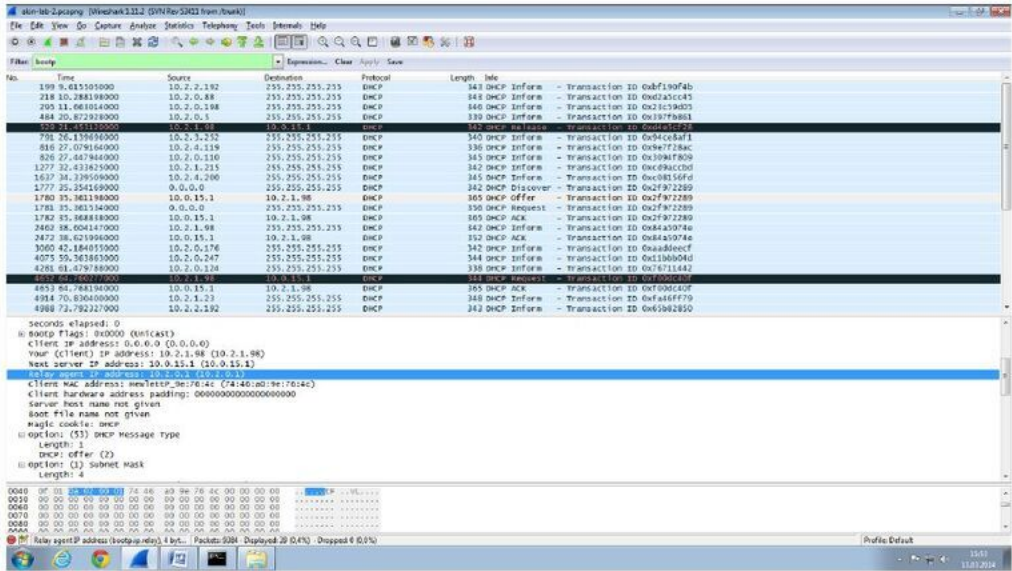
Offer ve ACK için ise gerçek ip adreslerini kullanmaktadır.



7-Benim offerda yer alan source adresim : 10.0.15.1

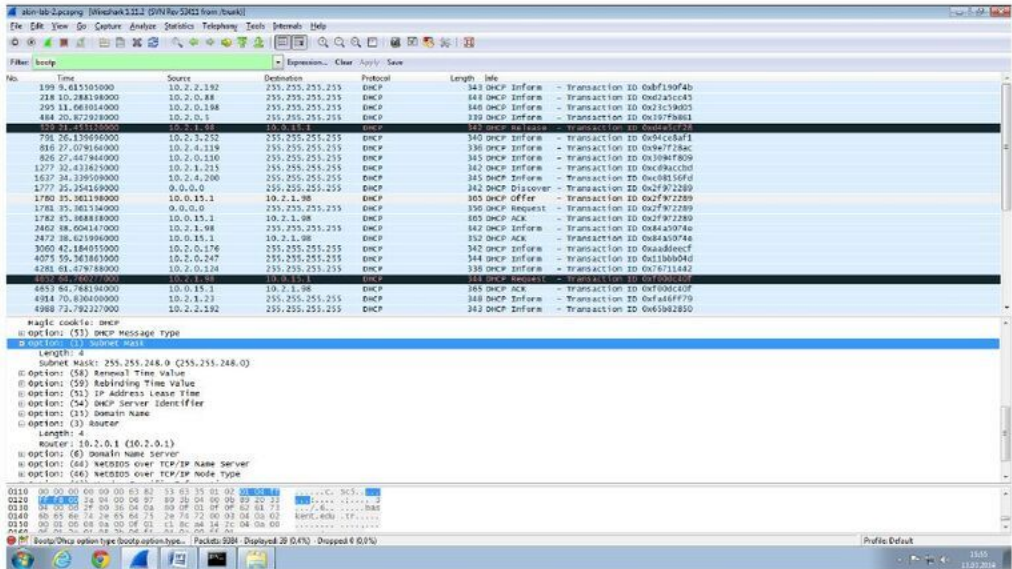


8-Bana verilen ip adresi bu şekildedir. Your (client) IP address: 10.2.1.98 (10.2.1.98)



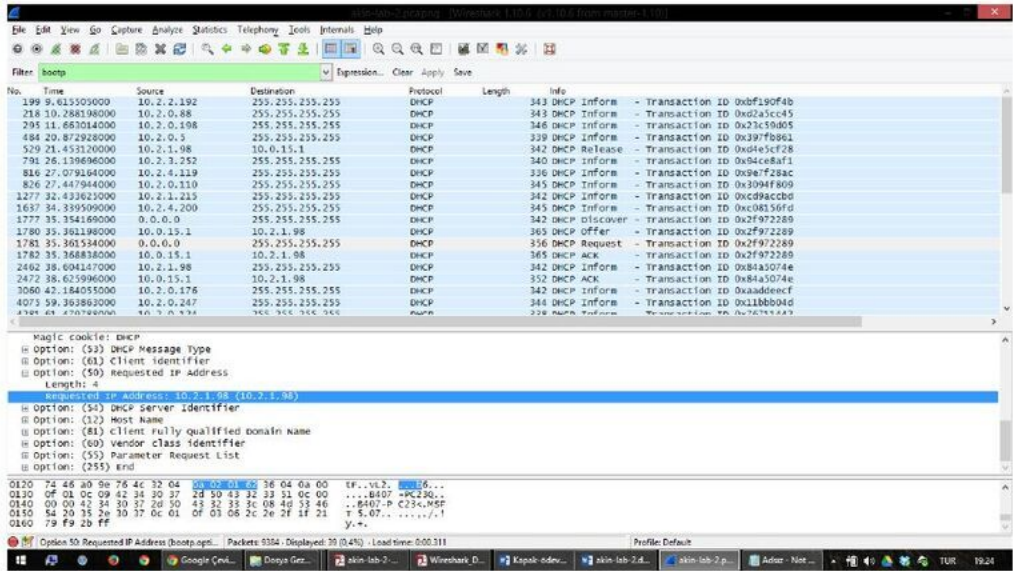
9-Relay agent IP address: 10.2.0.1 (10.2.0.1)

Serverın içinde subnet' te uygun ip bulunmadığından başka bir sunucunun subnetinden ip adresi vermiş demektir.

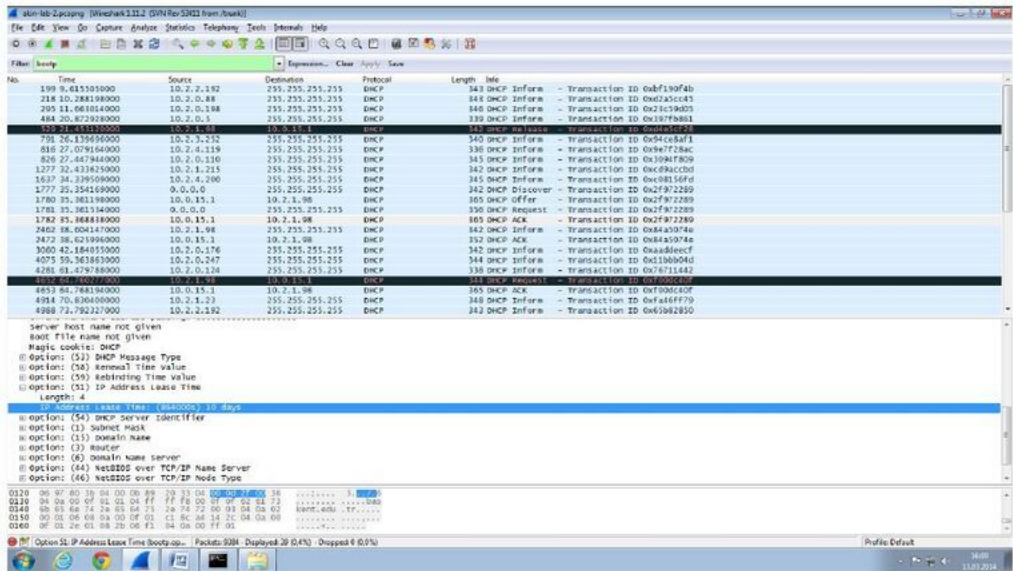


10-Option: (1) Subnet Mask : Hangi "subnet mask"ın kullanılacağını söyler.

Option: (3) Router: Varsayılan ağ geçidinin ne olması gerektiğini söyler.



11-Yapılan deneyde, sunucu verilen ip adresini kabul ettiğini göstermektedir.



12-Lease time bana serverin ip yi ayırdığı zaman dilimidir. Bana verilen süre:

IP Address Lease Time: (864000s) 10 days

13-Verilen ip adresinden vaz geçtiğimizi gösteriyoruz. Server release mesajına cevap vermiyor.Süre bitince otomatik olarak sıfırlanmakta ve verilen ip adresi değişmektedir.

