Bil 452 Hw-3

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1-) http://www.nectec.or.th/users/htk/web-th.960318.html bu sayfada Tayland'da bulunan webserverlarin listesi vardi oradan www.mut.ac.th adresini seçtim.

```
toor@001:~$ nslookup www.mut.ac.th
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   www.mut.ac.th
Address: 203.209.55.160
```

Sitenin adresi: 203.209.55.160

2-) Bu soru için Duisburg-Essen Universitesinin sitesi olan www.uni-due.de adresi seçtim. Ancak authoritative adresler bulunamamıştır.

```
toor@001:~$ nslookup -type=NS uni-due.de
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
uni-due.de      nameserver = ns1.uni-essen.de.
uni-due.de      nameserver = ws-lei1.win-ip.dfn.de.
uni-due.de      nameserver = ns2.uni-duisburg-essen.de.
uni-due.de      nameserver = ws-nue1.win-ip.dfn.de.
uni-due.de      nameserver = ns1.uni-duisburg-essen.de.
uni-due.de      nameserver = ns2.uni-essen.de.

Authoritative answers can be found from:

toor@001:~$
```

3-) Bu sorguyu Ubuntu'da attığımda "connection timeout" hatası alıyorum. Bilgisayarımda Windows olmadığı için kendi bilgisayarımdan bu soruyu yapamadım ancak başka bir Windows kurulu bilgisayarda bunu gözlemleyebildim.

```
toor@001:~$ nslookup www.mail.yahoo.com www.uni-due.de
;; connection timed out; no servers could be reached

toor@001:~$ nslookup mail.yahoo.com www.uni-due.de
;; connection timed out; no servers could be reached

toor@001:~$ nslookup mail.yahoo.com uni-due.de
;; connection timed out; no servers could be reached
```

ipconfig

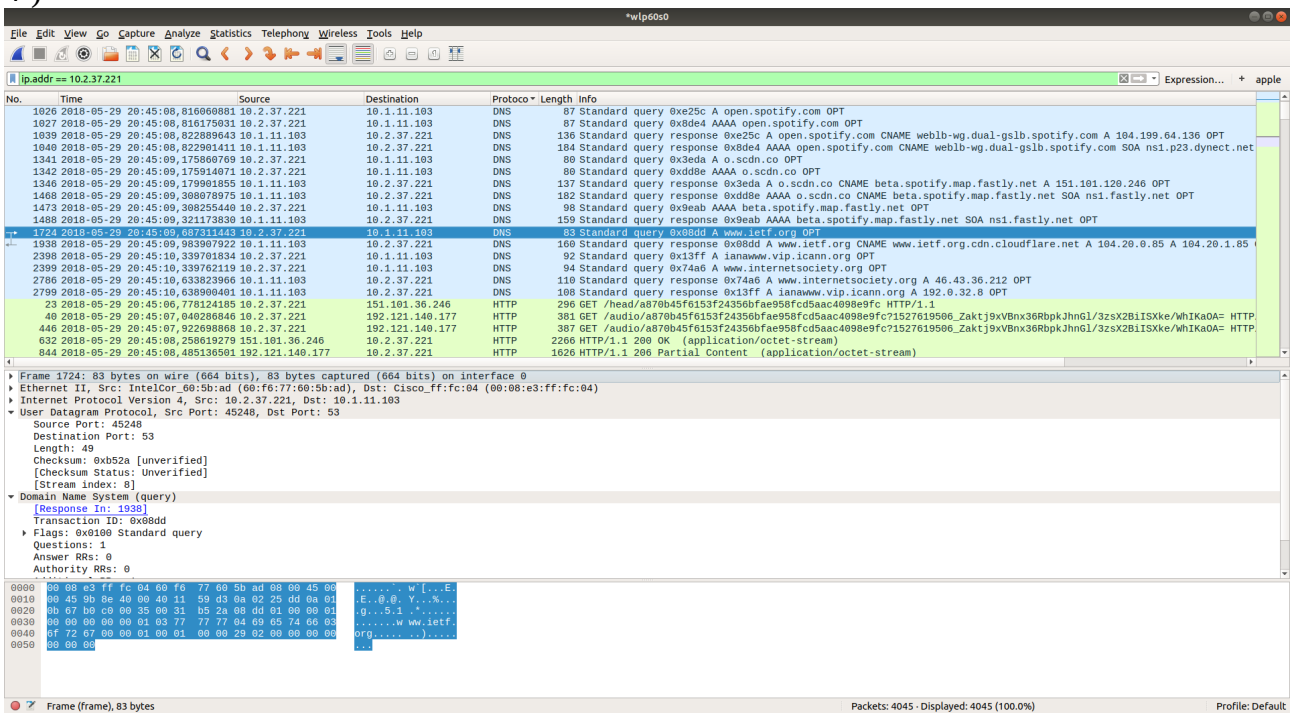
```
toor@001:~$ ifconfig
enp59s0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether a4:4c:c8:6f:d8:78  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 694  bytes 59076 (59.0 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 694  bytes 59076 (59.0 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlp60s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.2.37.221  netmask 255.255.252.0  broadcast 10.2.39.255
        inet6 fe80::d889:790:672d:ff14  prefixlen 64  scopeid 0x20<link>
        ether 60:f6:77:60:5b:ad  txqueuelen 1000  (Ethernet)
        RX packets 12021  bytes 12082570 (12.0 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 7701  bytes 1830996 (1.8 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Ubuntu’da yaptığım araştırmalara göre DNS cache özelliği olmadığı için bu sorular için ekran görüntüsü koyamıyorum. (ipconfig /displaydns ve ipconfig /flushdns)

4-)

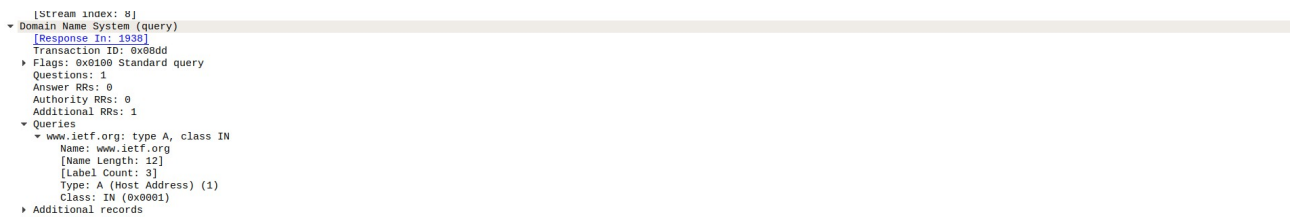


Yukarıdaki ekran görüntüsünde görüldüğü gibi UDP (User Datagram Protocol) kullanılmıştır.

5-) Yine yukarıdaki ekran görüntüsüne bakarsak Destination Port: 53 Source Port: 45248'dir.

6-) Destination 10.1.11.103 olarak görünmektedir, ancak yine Ubuntu'dan kaynaklı olarak local DNS server'i bilgisini görememekteyim.

7-)



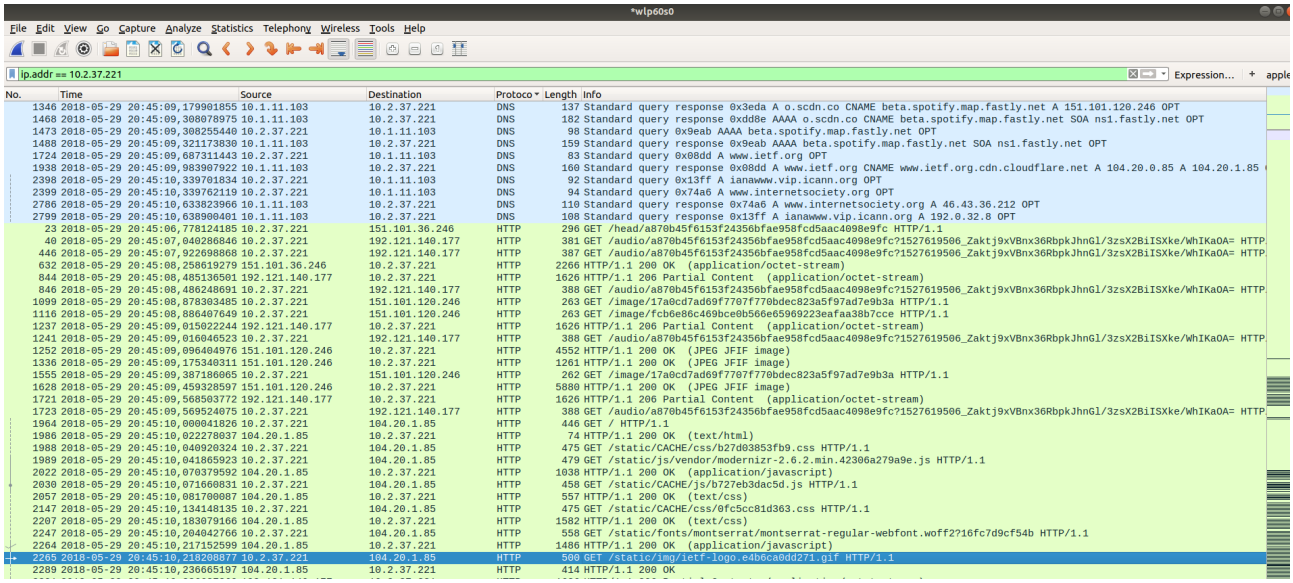
Type 'A' olarak görünmektedir ancak cevap 'answer' içermemektedir.

8-)

3 adet answer görülmektedir. 1 tanesi 'CNAME' tipinde diğer ikisi 'A' tipindedir. Type: CNAME (Canonical NAME for an alias) ve Address bilgilerini içermektedirler.

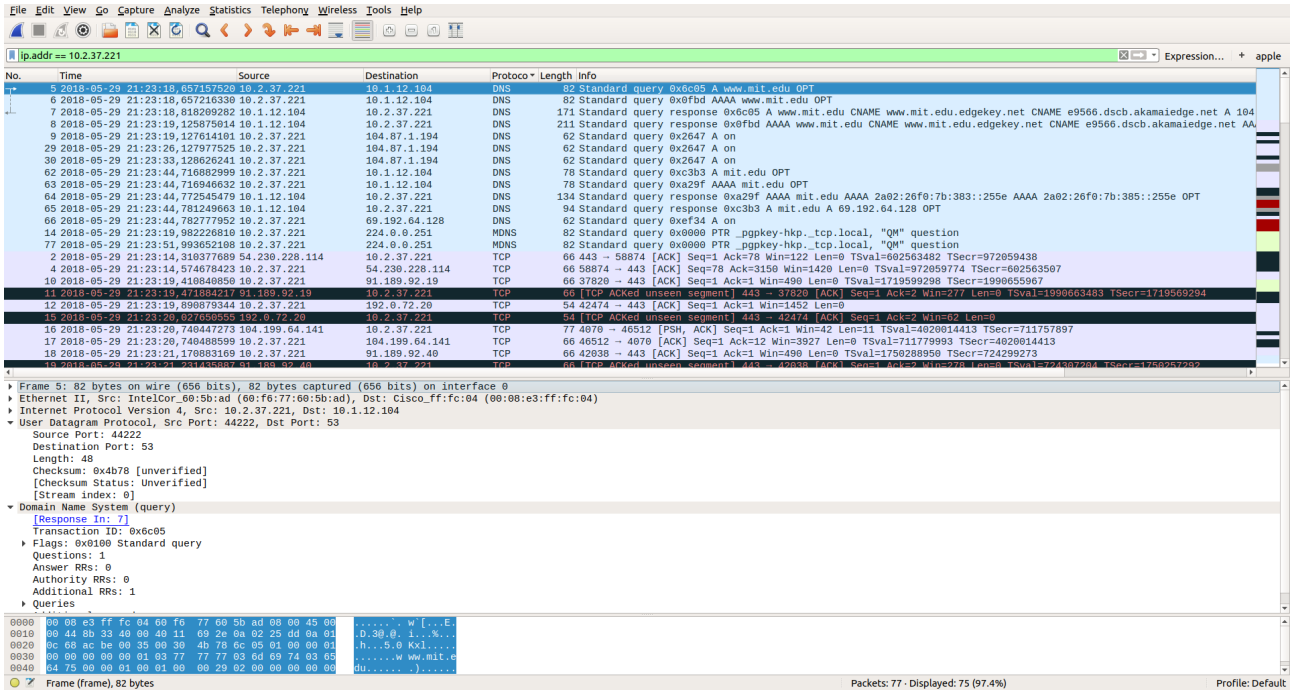
9-) Destination 104.20.0.85 adresidir ve bu response'da gelen adresle aynıdır.

10-)



Evet oldu yukarıda görüldüğü gibi resim alınmadan önce DNS sorguları yapıldı ve bu sorgu tamamlanana kadar resim alınmadı.

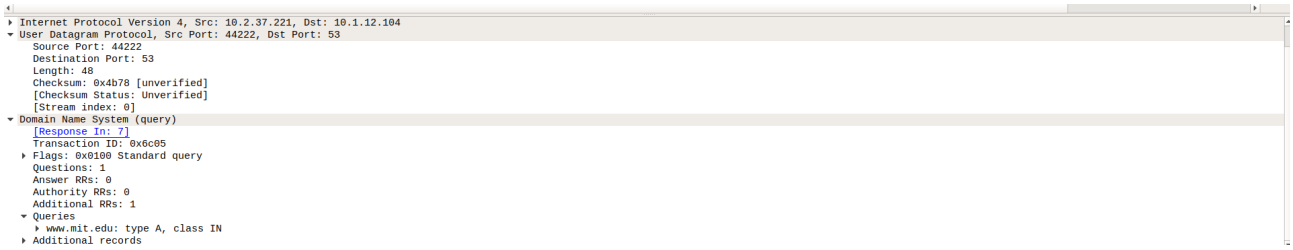
11-)



Destination port: 53
Source port: 4422

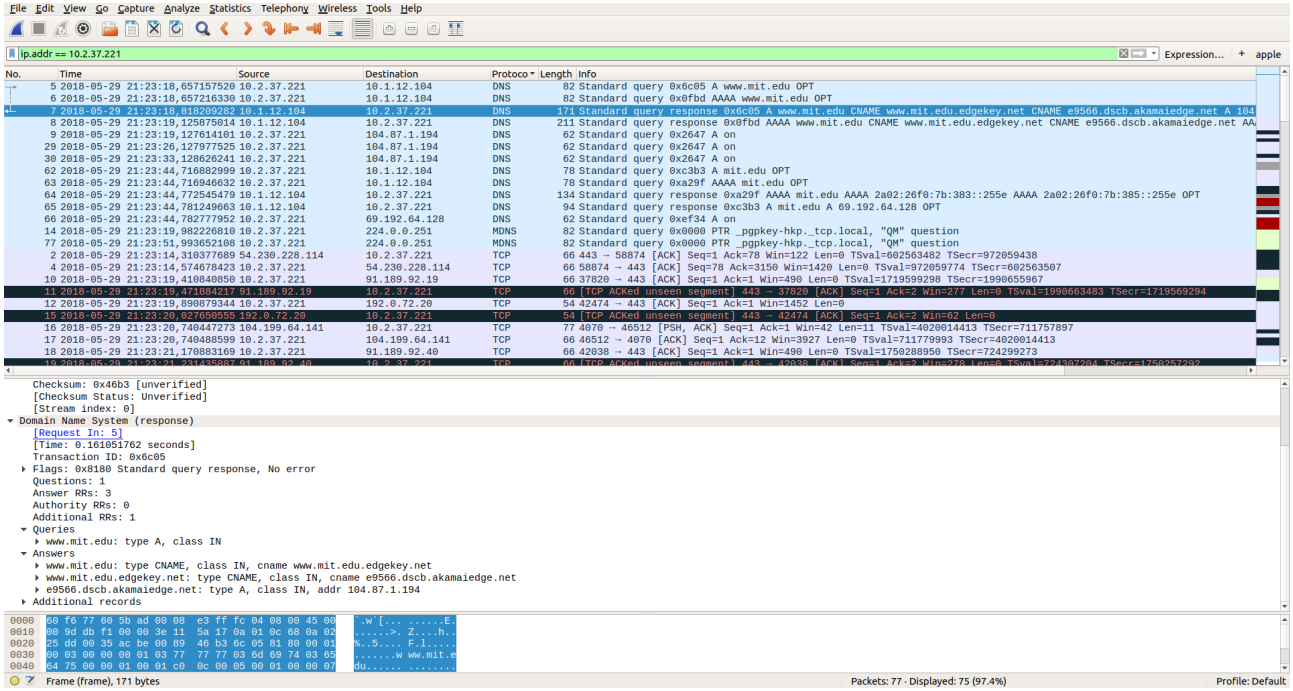
12-) Query 10.1.12.104 adresine gönderilmiştir.

13-)



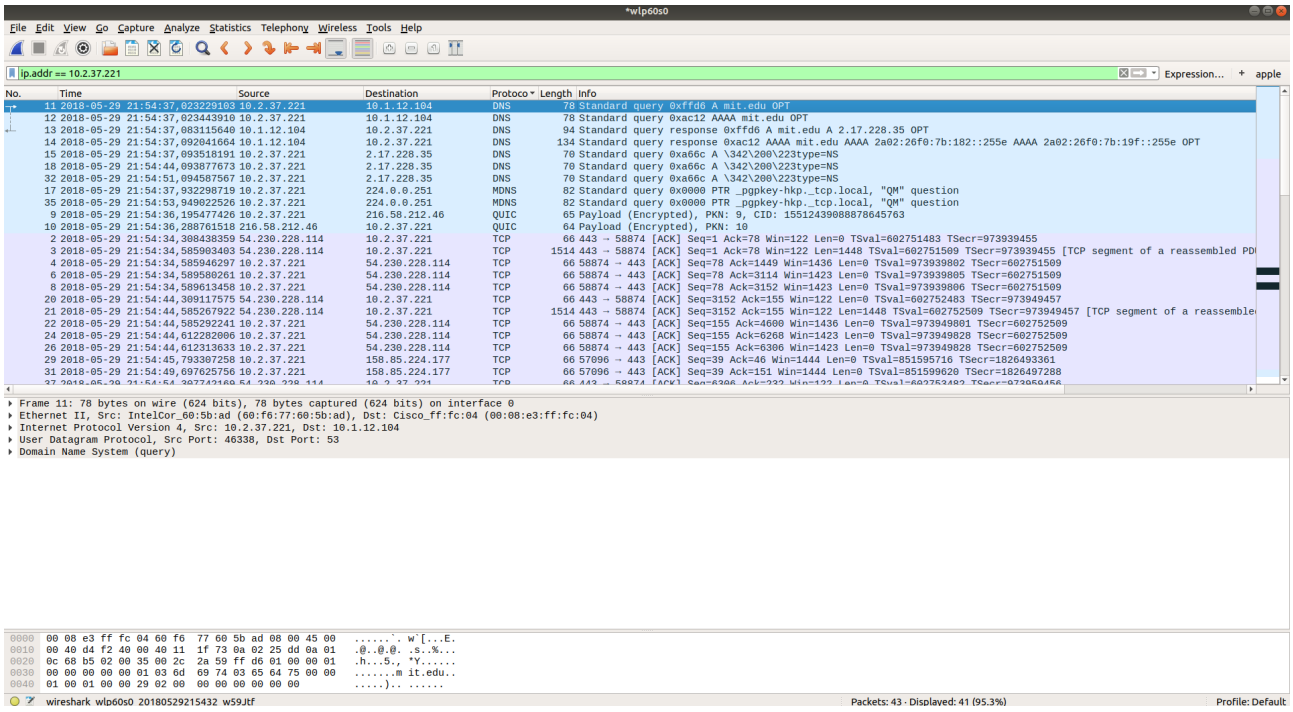
Type ‘A’ 1 query içermekte ve answer yok.

14-)



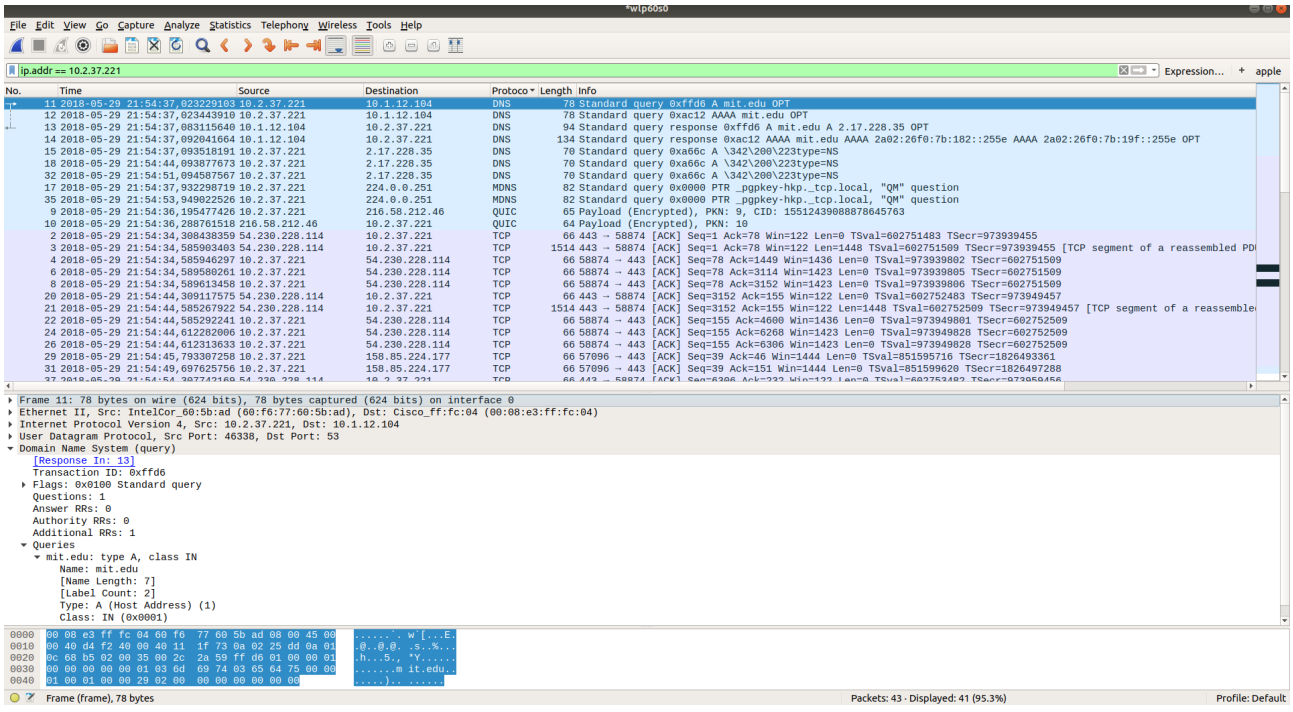
3 cevap içermektedir ve adresleri göstermektedir. 1 tane ‘CNAME’ ve iki tane ‘A’ tipinde

16-)



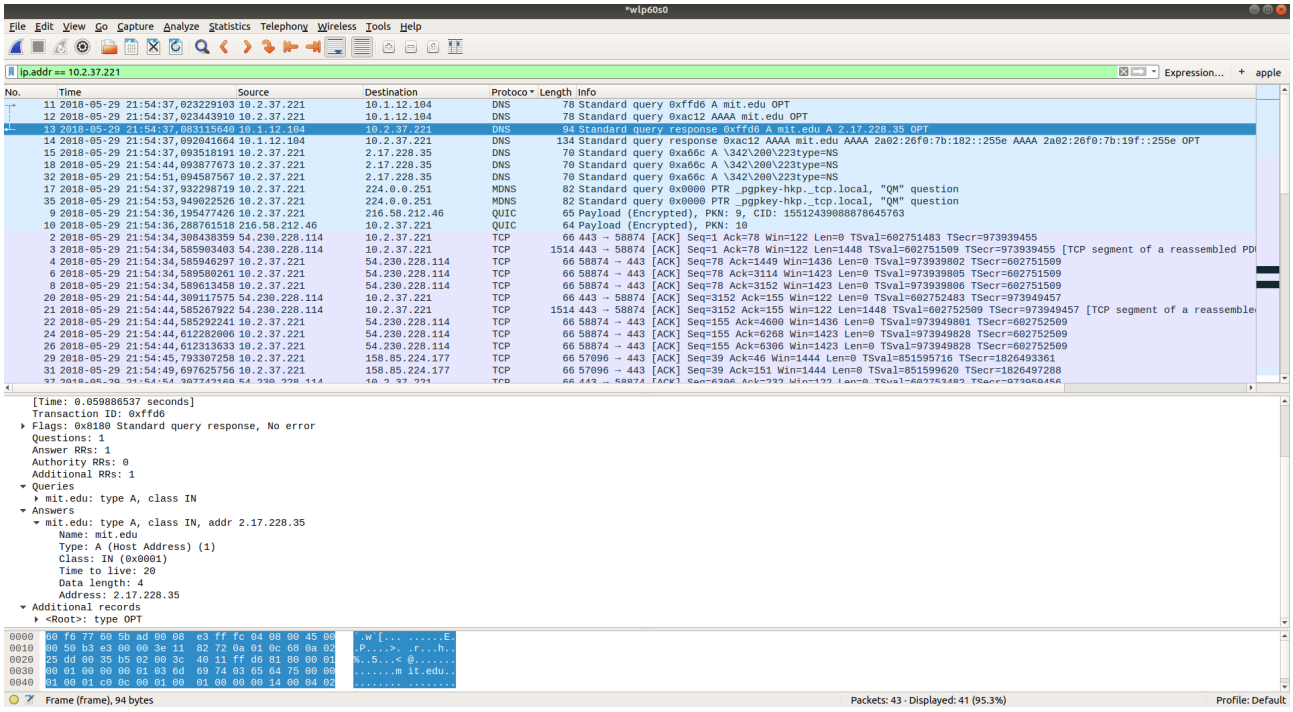
10.1.12.104 adresine gönderilmiştir.

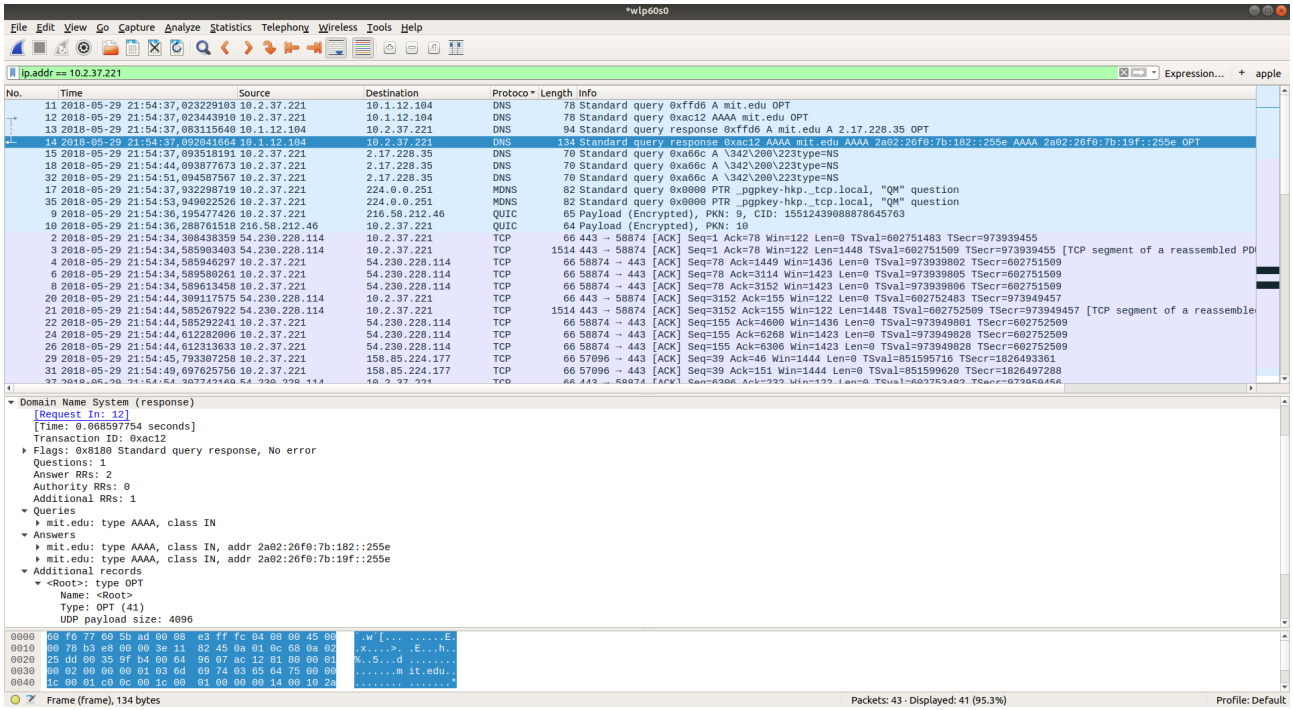
17-)



‘A’ tipinde bir query içermektedir. Answer yoktur.

18-)



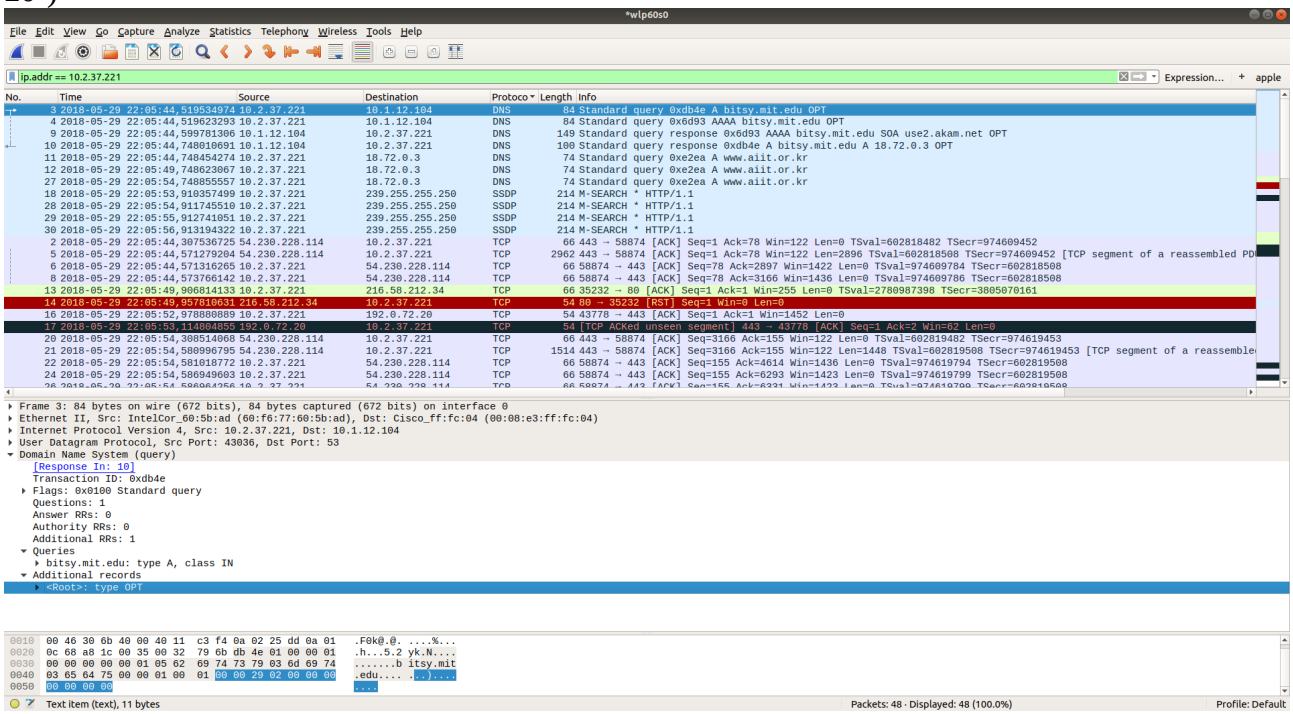


Yukarıda ekran görüntülerinde görüldüğü gibi herhangi bir nameserver bilgisine ulaşılamamıştır. Bunu tekrardan Ubuntu kaynaklı bir problem olarak açıklayabilirim.

```
toor@001:~$ nslookup -type=NS mit.edu
;; connection timed out; no servers could be reached
```

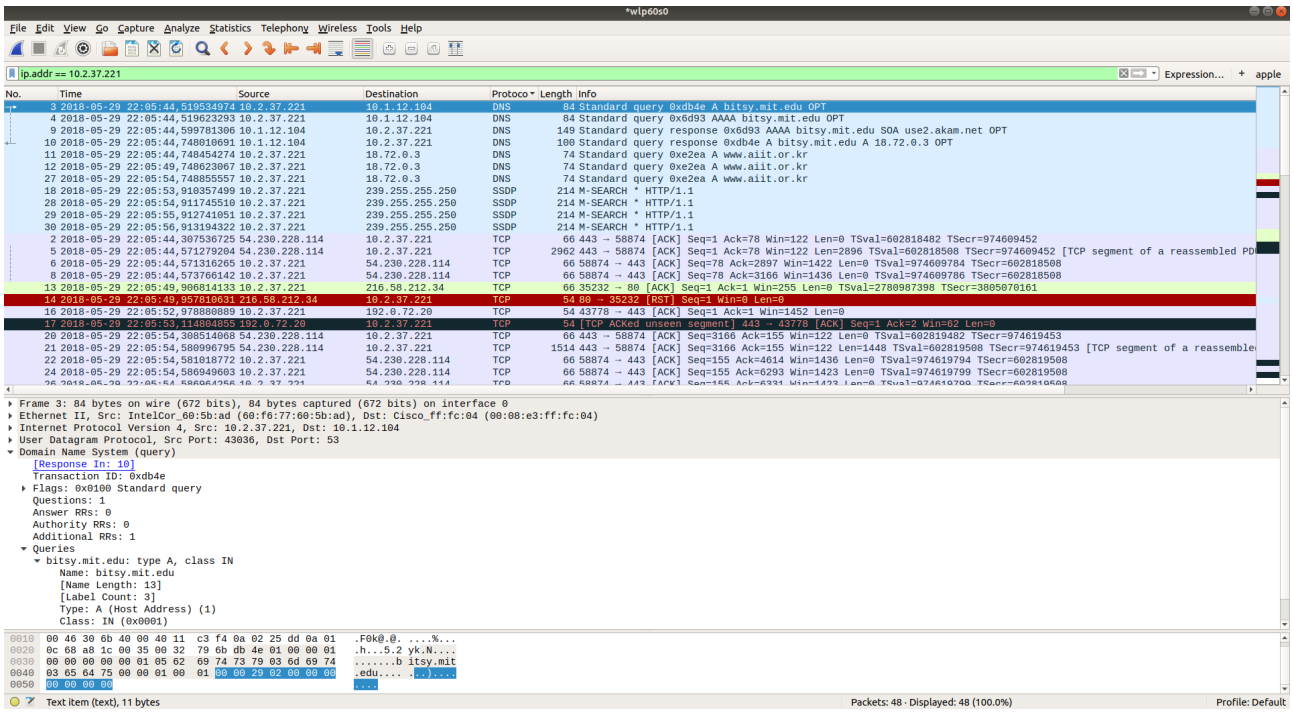
Connection timed out hatası ile karşılaştım.

20-)



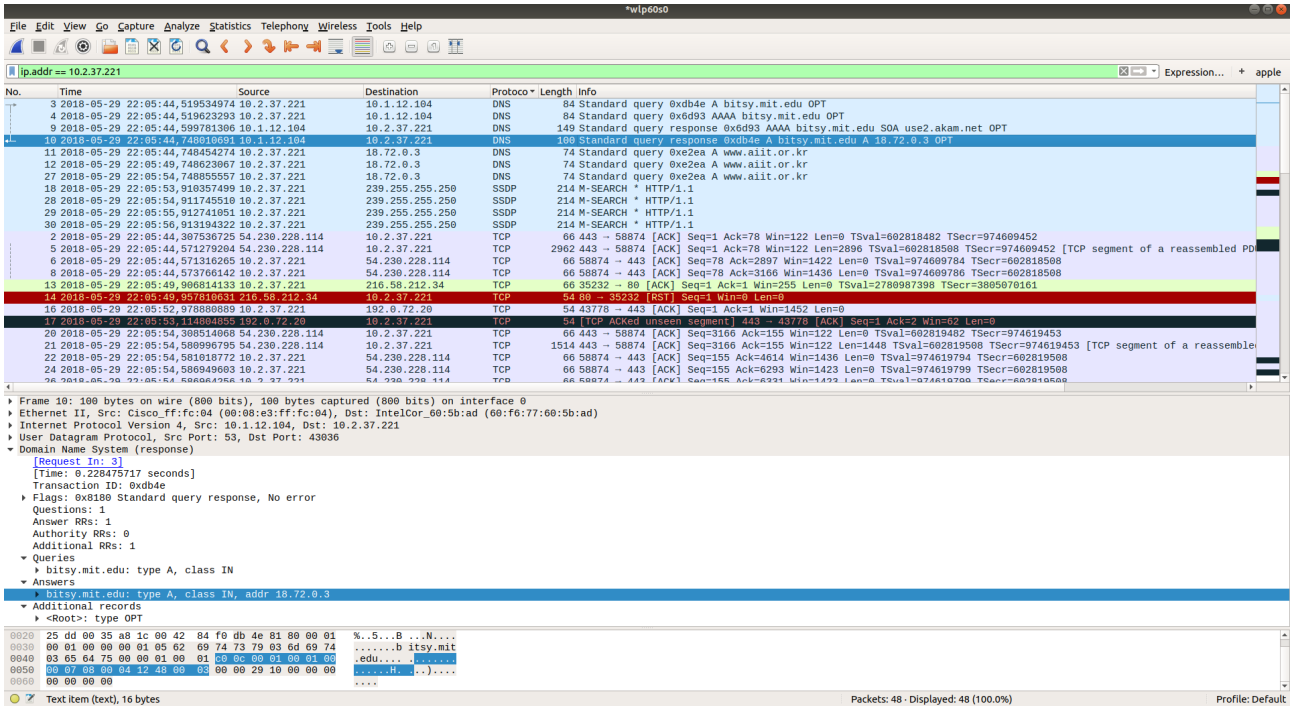
10.1.12.104 adresine gönderilmiştir.

21-)



Response ‘A’ tipinde query içermektedir.

22-)



Tek bir answer içermektedir. Server’in ip adresi vardir bu answerda.