COMPUTER NETWORKS HW-2

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PART-1

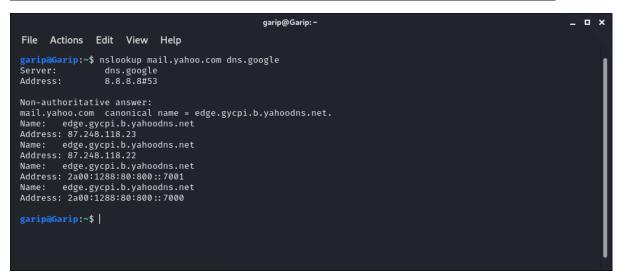


```
garip@Garip:~

File Actions Edit View Help

garip@Garip:~$ nslookup www.manchester.ac.uk mail.yahoo.com
;; connection timed out; no servers could be reached

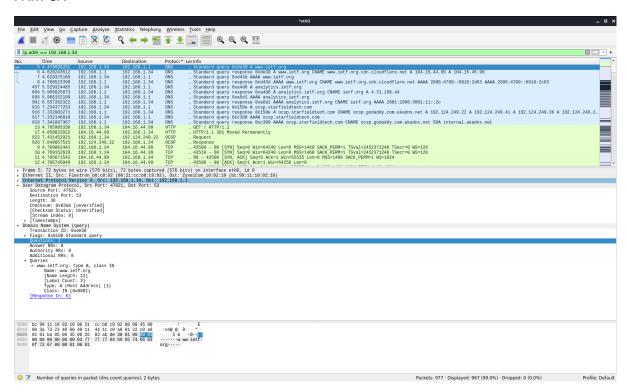
garip@Garip:~$|
```

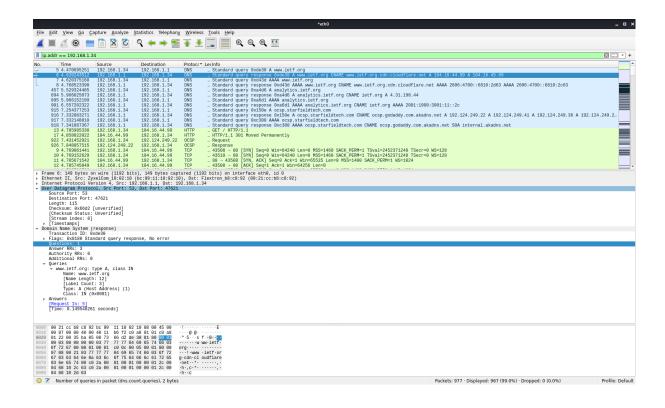


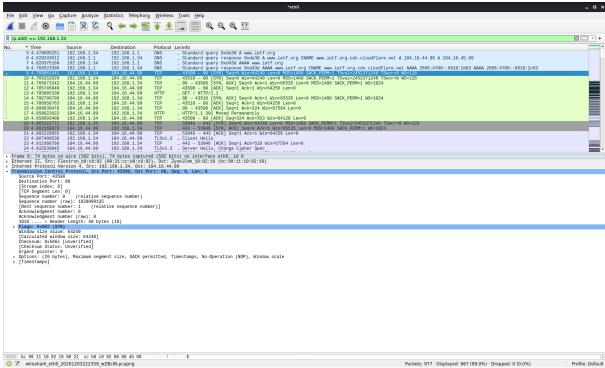
- Q.1) 143.248.155.65
- Q.2) 130.88.101.57
- Q.3) 87.248.118.23

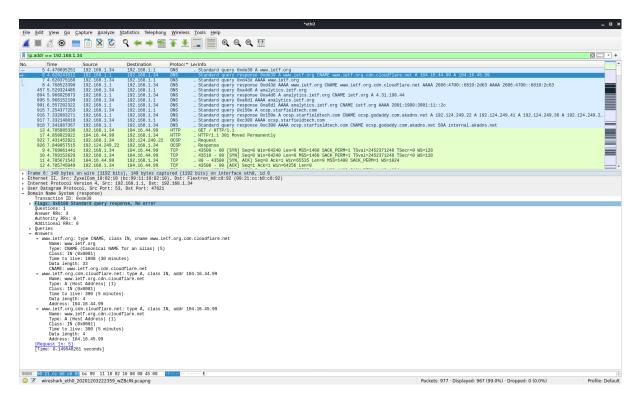
PART-2

PART-3A









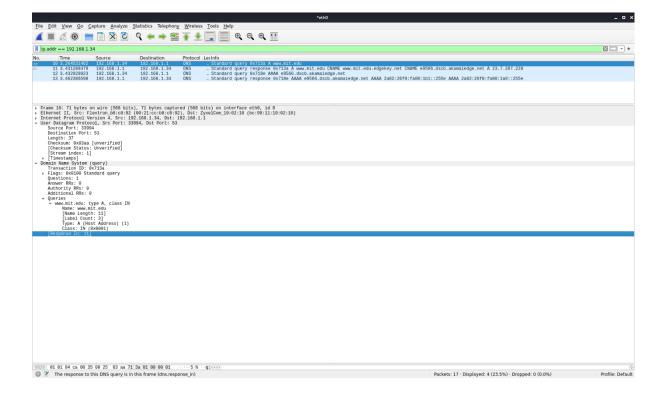
- Q.4) They are sent over UDP.
- Q.5) Destination port for the DNS query is 53 and source port for response is 53.
- Q.6) 192.168.1.34 is my IP address.
- Q.7) It's a type A query. There are no answers.
- Q.8) There are 3 answers. Answers are about the type of address, name of the host, the data length.
- Q.9) The first SYN was sent to 104.16.44.99. It is the IP address of the second answer.
- Q.10) There is any new DNS query for the images.

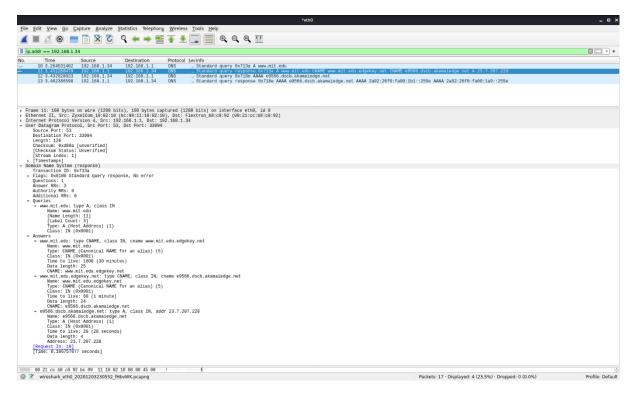
PART-3B

```
File Actions Edit View Help

garip@Garip:-* nslookup -type=NS mit.edu
Server: 192.168.1.1
Address: 192.168.1.1#53

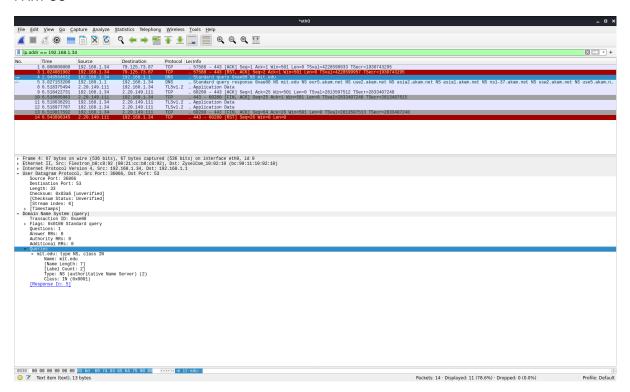
Non-authoritative answer:
mit.edu nameserver = eur5.akam.net.
mit.edu nameserver = eus2.akam.net.
mit.edu nameserver = asia1.akam.net.
mit.edu nameserver = ns1-37.akam.net.
mit.edu nameserver = usw2.akam.net.
mit.edu nameserver = usw2.akam.net.
mit.edu nameserver = usw2.akam.net.
mit.edu nameserver = ns1-173.akam.net.
mit.edu nameserver = ns1-173.akam.net.
sit.edu nameserver = usw2.akam.net.
mit.edu nameserver = susy2.akam.net.
sit.edu nameserver = usw2.akam.net.
sit.edu nameserver = us
```

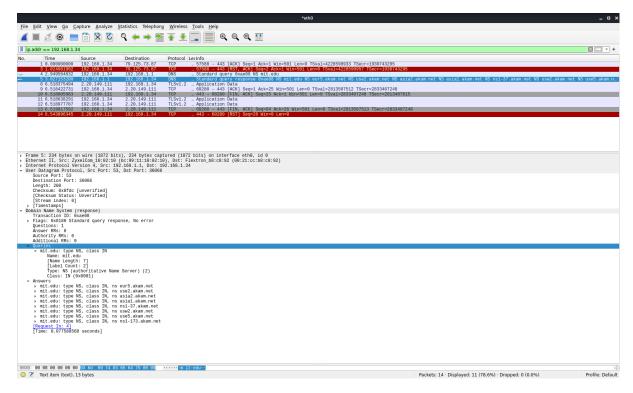




- Q.11) Destination port for the DNS query is 53 and source port for response is 53.
- Q.12) It's sent to 192.168.1.1
- Q.13) The type of the query is A and doesn't contains any answers.
- Q.14) The response DNS contains 3 answers.

PART-3C





- Q.16) It was sent to 192.168.1.34 which is my IP address.
- Q.17) Its type is NS. It does not contain any answers.
- Q.18) There are some answers. When expand one answer, it contains IP address of that nameserver.

PART-3D

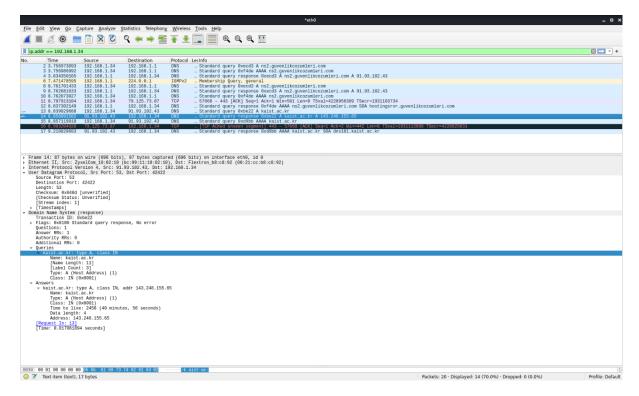
```
garip@Garip:-↑
File Actions Edit View Help

garip@Garip:-↑ nslookup kaist.ac.kr ns2.guvenlikcozumleri.com
Server: ns2.guvenlikcozumleri.com
Address: 91.93.102.43#53

Non-authoritative answer:
Name: kaist.ac.kr
Address: 143.248.155.65

garip@Garip:-↑

| Server: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozumleri.com
| Address: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozumleri.com
| Address: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozumleri.com
| Address: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozumleri.com
| Address: ns2.guvenlikcozumleri.com
| Server: ns2.guvenlikcozu
```



Q.20) 91.93.102.43

- Q.21) The type is A. It doesn't contains any answers.
- Q.22) There is one answer. It contains name, type, class and data length.

EXTRAS)

1) In that part, I can not obtain any answer in Linux so I use Windows.

```
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In Waren/Caripynallockup waw.narmara.edu.tr a.root-servers.net in-addr.arpa namesserver = s.in-addr-servers.arpa in-addr-servers.arpa AAAA IPV6 address = 2001.19.66.101

Jain-addr-servers.arpa AAAA IPV6 address = 2001.19.67.70210:151

Jain-addr-servers.arpa AAAA IPV6 address = 2001.1367.70210:151

Jain-addr-servers.arpa AAAA IPV6 address = 1001.1367.10210:151

Jain-addr-servers.arpa AAAA IPV6 address = 1001.1367.10210:151

Jain-addr-servers.arpa AAAA IPV6 address = 1001.1367.10210:151

Jain-addr-servers.arpa AAAA IPV6 address = 1001.1367.10210:151
Address: 198.41.0.4

lane: www.marmara.edu.tr

ierved by:
-ns21.nic.tr
213.14.246.2

tr
-ns21.nic.tr
213.14.246.6

tr
-ns31.nic.tr
313.1210.155.2

tr
-ns41.nic.tr
185.7.0.2
2001:398:10:eeee::41

tr
-ns42.nic.tr
2001:398:10:eeee::42

tr
-ns61.nic.tr
200:1398:10:eeee::42

tr
-ns61.nic.tr
185.7.0.3
2001:398:10:eeee::42

tr
-ns61.nic.tr
186.51.254.1
2629:171:894:ad2::1
                     (Users\Garip>nslookup www.marmara.edu.tr ns21.nic.tr
rver: UnKnown
dress: 213.14.246.2
                                                                                      :
mara.edu.tr
193.140.143.2
2001:s98:s070:8c8f::2
marmara.edu.tr
mara.edu.tr
193.140.143.3
2001:s98:s070:8c8f::3
marmara.edu.tr
              rver: UnKnown
dress: 193.140.143.2
                                                                                  www.marmara.edu.tr
s: 2001:a98:a070:8c8f::2b
193.140.143.43
```

```
garip@Garip:-$ nslookup satlab.cmpe.boun.edu.tr
Server: 192.168.1.1
Address: 192.168.1.1#53

Non-authoritative answer:
satlab.cmpe.boun.edu.tr canonical name = kalkan.cmpe.boun.edu.tr.
Name: kalkan.cmpe.boun.edu.tr
Address: 79.123.177.146

garip@Garip:-$ |
```

```
garip@Garip:~

File Actions Edit View Help

garip@Garip:~$ nslookup netlab.cmpe.boun.edu.tr

Server: 192.168.1.1
Address: 192.168.1.1#53

Non-authoritative answer:
netlab.cmpe.boun.edu.tr canonical name = orkinos.cmpe.boun.edu.tr.

Name: orkinos.cmpe.boun.edu.tr
Address: 79.123.177.242

garip@Garip:~$ |
```

```
Garip@Garip:-

File Actions Edit View Help

garip@Garip:-

$ nslookup -type=NS www.marmara.edu.tr

Server: 192.168.1.1

Address: 192.168.1.1#53

Non-authoritative answer:

** Can't find www.marmara.edu.tr: No answer

Authoritative answers can be found from:

marmara.edu.tr

origin = nsl.marmara.edu.tr

mail addr = sysadmin.marmara.edu.tr

serial = 2020120101

refresh = 10800

retry = 900

expire = 2419200

minimum = 900

garip@Garip:-$
```

```
File Actions Edit View Help
garip@Garip:~$ nslookup -type=NS www.cmpe.boun.edu.tr
Server: 192.168.1.1
Address: 192.168.1.1#53
Non-authoritative answer:
www.cmpe.boun.edu.tr canonical name = vileda.cmpe.boun.edu.tr.
Authoritative answers can be found from:
cmpe.boun.edu.tr
             origin = ns1.cmpe.boun.edu.tr
mail addr = admin.cmpe.boun.edu.tr
serial = 2020102801
refresh = 10800
retry = 3600
expire = 604800
minimum = 86400
garip@Garip:~$
                                                                                    garip@Garip: ~
 File Actions Edit View Help
garip@Garip:~$ nslookup -type=NS www.boun.edu.tr
Server: 192.168.1.1
Address: 192.168.1.1#53
Non-authoritative answer: www.boun.edu.tr canonical name = lir.cc.boun.edu.tr.
Authoritative answers can be found from:
Authoritative answers can be found from:
cc.boun.edu.tr
origin = simurg.cc.boun.edu.tr
mail addr = hostmaster.boun.edu.tr
serial = 2020110501
refresh = 10800
retry = 3600
expire = 604800
minimum = 86400
```

garip@Garip:~\$