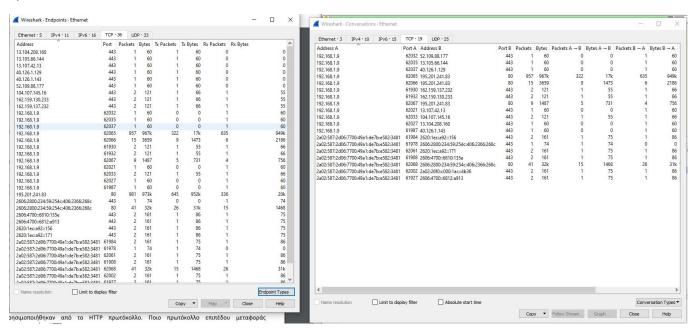
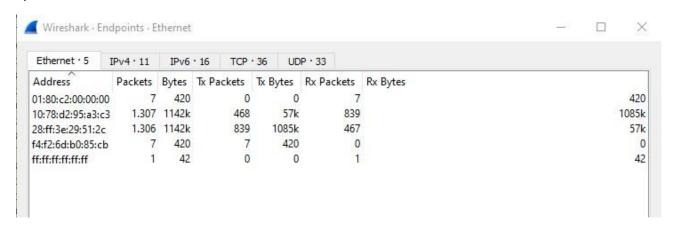
1)



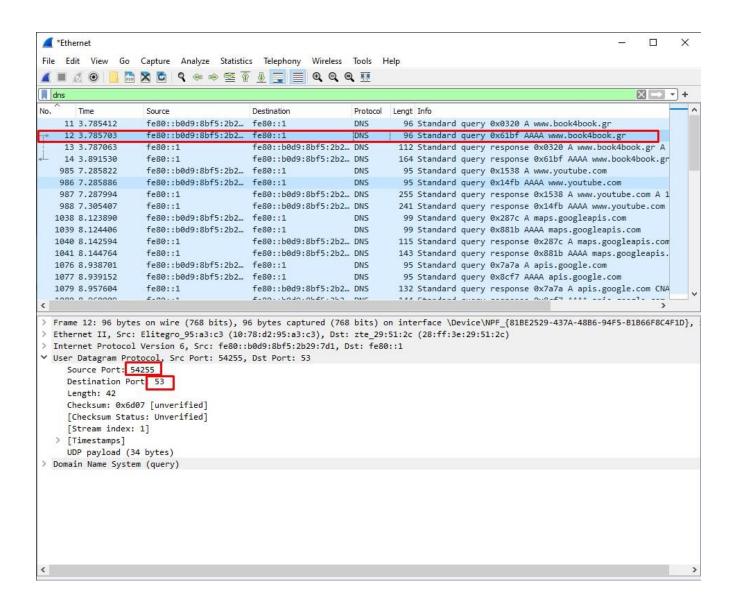
2)

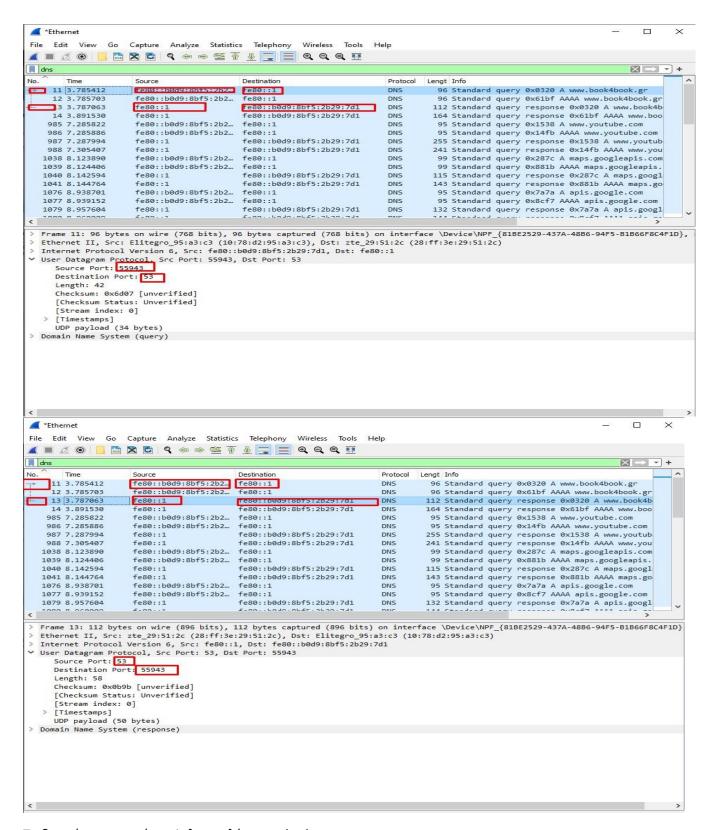


To 2ο είναι η MAC address του pc

To 3ο είναι η MAC address του router

3)





Το διακρίνουμε γιατί στο info μας λέει standard query response

Το πακέτο συνδέεται επειδή βλέπουμε ότι αντιστρέφονται τα destination kai source port. Επομένως καταλαβαίνουμε ότι αναφέρονται στο ίδιο πακέτο.

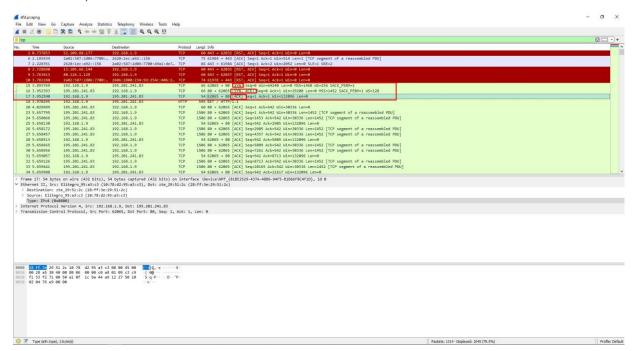
## 7)

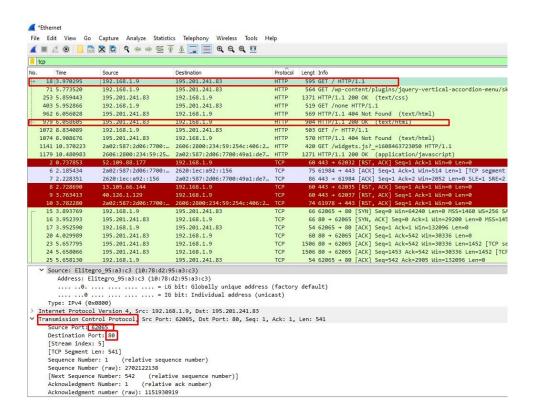
```
*Ethernet
                                                                                                                          П
                                                                                                                                 X
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
🛕 🔳 🗷 🐵 📙 陆 🔀 🔁 🭳 🥯 🥯 ≊ 🗿 💆 📃 🗐 🗨 🔍 🔍 🖽
dns
                                                                                                                        X -> - +
No.
      Time
                     Source
                                          Destination
                                                                        Protocol Lengt Info
11 3.785412
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                        DNS
                                                                                 96 Standard query 0x0320 A www.book4book.gr
    12 3.785703
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                        DNS
                                                                                 96 Standard query 0x61bf AAAA www.book4book.g
  13 3.787063
                                          fe80::b0d9:8bf5:2b29:7d1
                     fe80::1
                                                                        DNS
                                                                                112 Standard query response 0x0320 A www.book4b
    14 3.891530
                     fe80::1
                                          fe80::b0d9:8bf5:2b29:7d1
                                                                        DNS
                                                                                 164 Standard query response 0x61bf AAAA www.boo
                     fe80::h0d9:8hf5:2h2... fe80::1
   985 7.285822
                                                                        DNS
                                                                                 95 Standard query 0x1538 A www.youtube.com
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                                 95 Standard query 0x14fb AAAA www.youtube.com
   986 7.285886
                                                                        DNS
   987 7.287994
                     fe80::1
                                          fe80::b0d9:8bf5:2b29:7d1
                                                                                 255 Standard query response 0x1538 A www.youtub
                                                                        DNS
                                          fe80::b0d9:8bf5:2b29:7d1
   988 7.305407
                     fe80::1
                                                                        DNS
                                                                                 241 Standard query response 0x14fb AAAA www.you
                                                                                 99 Standard query 0x287c A maps.googleapis.com
   1038 8.123890
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                        DNS
   1039 8.124406
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                                 99 Standard query 0x881b AAAA maps.googleapis.
                                                                        DNS
   1040 8.142594
                     fe80::1
                                          fe80::b0d9:8bf5:2b29:7d1
                                                                        DNS
                                                                                 115 Standard query response 0x287c A maps.googl
                                           fe80::b0d9:8bf5:2b29:7d1
   1041 8.144764
                     fe80::1
                                                                        DNS
                                                                                 143 Standard query response 0x881b AAAA maps.go
   1076 8.938701
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                                 95 Standard query 0x7a7a A apis.google.com
   1077 8.939152
                     fe80::b0d9:8bf5:2b2... fe80::1
                                                                                 95 Standard query 0x8cf7 AAAA apis.google.com
                                                                        DNS
                                                                                132 Standard query response 0x7a7a A apis.googl
   1079 8.957604
                     fe80::1
                                          fe80::b0d9:8bf5:2b29:7d1
                                                                        DNS
     [Stream index: 0]
  > [Timestamps]
     UDP payload (50 bytes)
V Domain Name System (response)
     Transaction ID: 0x0320
   > Flags: 0x8180 Standard query response, No error
     Questions: 1
     Answer RRs: 1
     Authority RRs: 0
     Additional RRs: 0
  > Queries

✓ Answers

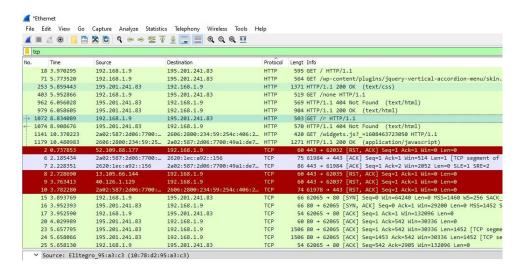
     www.book4book.gr: type A, class IN, addr 195.201.241.83
         Type: A (Host Address) (1)
           Class: IN (0X0001)
           Time to live: 3403 (56 minutes, 43 seconds)
           Data length: 4
           Address: 195.201.241.83
     [Request In: 11]
     [Time: 0.001651000 seconds]
```

Για να γίνει η χειραψία 3 βημάτων πρέπει να υπάρχει σταθερή συνδεσή .Η σύνδεση πρέπει να είναι full dublex και οι δυο μεριές πρέπει να συγχρονίζονται (syn) και να γνωρίζονται(ack).Για να γίνει η ανταλλαγή των flags, γίνονται σε 3 βήματα SYN, SYN-ACK, and ACK





## 10)



Έστειλα 3 get στο book4book.gr(195.201.241.83)

11)Τρέχω την έκδοση HTTP 1.1 όπως και ο σερβερ. Ο σερβερ λειτουργεί με apache

