Computer Networking (CSE 311)

DNS Lab using Wireshark

Submitted By:

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BSSE 13th batch

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Submitted To:

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Answer 1:

Server name: www.art-it.asia

Ip address: 160.16.123.100

Answer 2:

University: Cambridge university, UK.

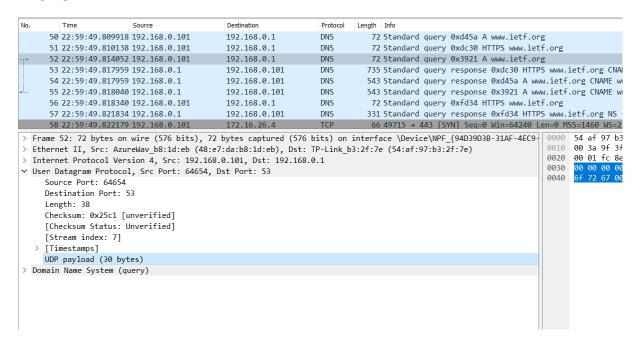
Answer 3:

```
kequest to Unknown timea-out
PS C:\Users\HP> nslookup mail.yahoo.com cam.ac.uk
DNS request timed out.
   timeout was 2 seconds.
Server: UnKnown
Address: 128.232.132.8
DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
   timeout was 2 seconds.
DNS request timed out.
   timeout was 2 seconds.
DNS request timed out.
   timeout was 2 seconds.
*** Request to UnKnown timed-out
PS C:\Users\HP>
```

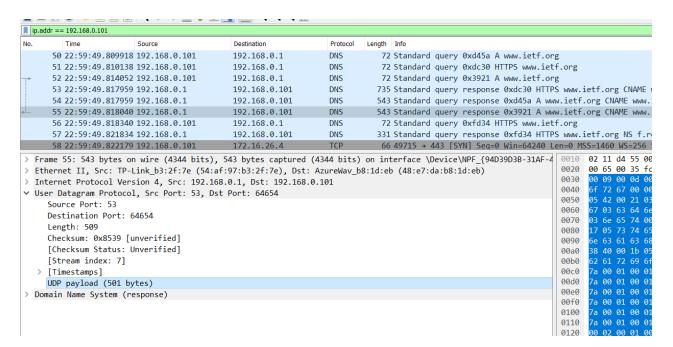
Ip address: **128.232.132.8**

Ipconfig command:

Answer 4:



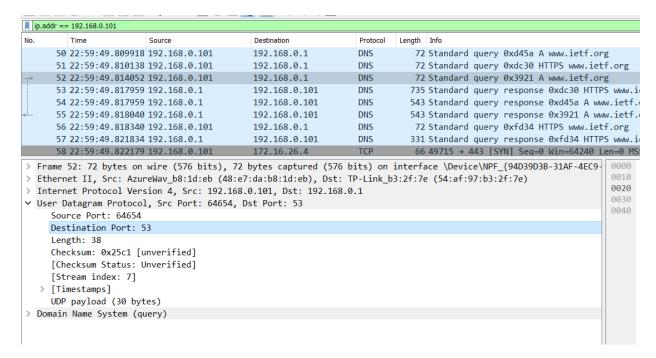
Screenshot for query message



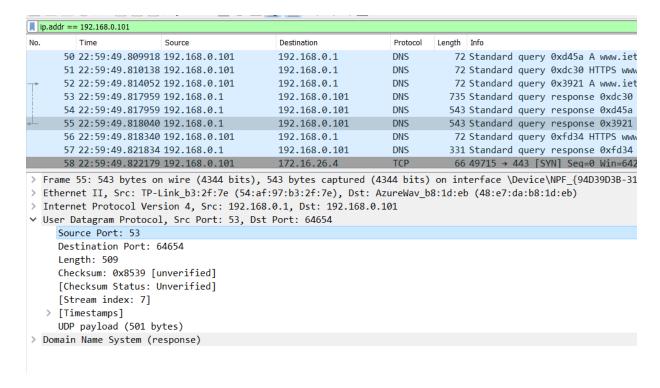
Screenshot for response message.

Both of them were sent over UDP.

Answer 5:

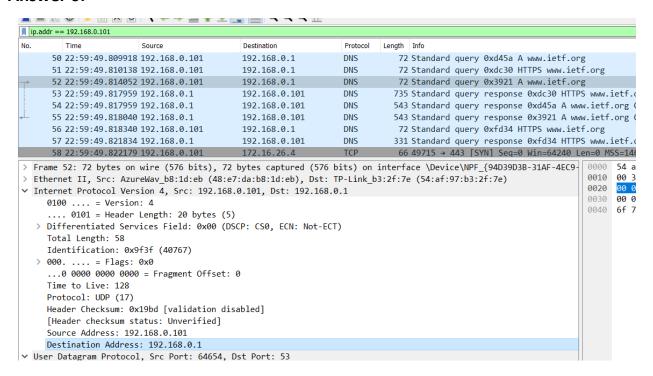


The destination port of the query message: 53



The source port of the response message: 53

Answer 6:



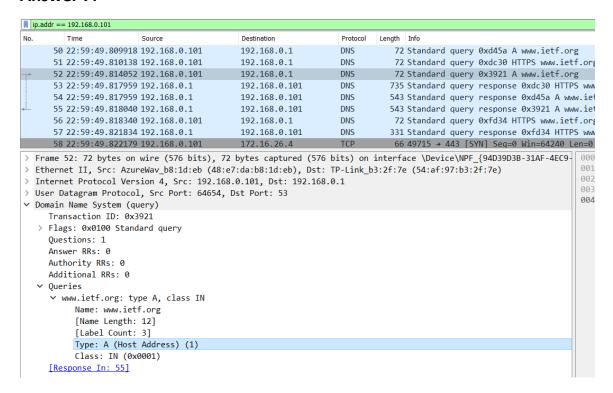
DNS query message was sent to IP address: 192.168.0.1

```
Connection-specific DNS Suffix .:
 Description . . . . . . . . . . : Realtek RTL8822CE 802.11ac PCIe Adapter
 Physical Address. . . . . . . . : 48-E7-DA-B8-1D-EB
 DHCP Enabled. . . . . . . . : Yes
 Autoconfiguration Enabled . . . . : Yes
 Link-local IPv6 Address . . . . : fe80::3fa2:2b18:49a:8eb%13(Preferred)
 IPv4 Address. . . . . . . . . . : 192.168.0.101(Preferred)
 Lease Obtained. . . . . . . . . : 13 February, 2023 8:49:20 PM
 Lease Expires . . . . . . . . : 14 February, 2023 12:43:42 AM
 Default Gateway . . . . . . . : 192.168.0.1
 DHCP Server . . . . . . . . . : 192.168.0.1
 DHCPv6 IAID . . . . . . . . . : 138995674
 DHCPv6 Client DUID.
                               : 00-01-00-01-2A-50-B0-CB-E0-70-EA-54-D1-86
                  . . . . . . . : 192.168.0.1
 NetBIOS over Tcpip. . . . . . : Enabled
hernet adapter Bluetooth Network Connection:
```

Ip address of local DNS server: 192.168.0.1

Both ip addresses are same.

Answer 7:



Type: A. answer: 0.

Answer 8:

```
27 27:23:43.914027 127:109:0:101
                                                                              /Z Standard duery AX38ZT W MMM
                                             192.100.0.1
                                                                  DINZ
      53 22:59:49.817959 192.168.0.1
                                             192.168.0.101
                                                                  DNS
                                                                             735 Standard query response 0xc
      54 22:59:49.817959 192.168.0.1
                                             192.168.0.101
                                                                  DNS
                                                                             543 Standard query response 0xc
      55 22:59:49.818040 192.168.0.1
                                             192.168.0.101
                                                                  DNS
                                                                             543 Standard query response 0x3
      56 22:59:49.818340 192.168.0.101
                                             192.168.0.1
                                                                  DNS
                                                                              72 Standard query 0xfd34 HTTPS
                                                                  DNS
                                                                             331 Standard query response 0xf
      57 22:59:49.821834 192.168.0.1
                                             192.168.0.101
      58 22:59:49.822179 192.168.0.101
                                             172.16.26.4
                                                                   TCP
                                                                              66 49715 → 443 [SYN] Seq=0 Wir
> Frame 55: 543 bytes on wire (4344 bits), 543 bytes captured (4344 bits) on interface \Device\NPF_{94D39D3
> Ethernet II, Src: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e), Dst: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb)
> Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.101
> User Datagram Protocol, Src Port: 53, Dst Port: 64654
Domain Name System (response)
    Transaction ID: 0x3921
  > Flags: 0x8180 Standard query response, No error
     Questions: 1
    Answer RRs: 9
     Authority RRs: 13
     Additional RRs: 3
  Oueries
     www.ietf.org: type A, class IN
```

Total answer: 09

Each of the response contain> host name, type, class, ip address.

```
54 22:59:49.817959 192.168.0.1
                                                                           543 Standard query response 0xd45a A www.:
                                            192,168,0,101
                                                                 DNS
      55 22:59:49.818040 192.168.0.1
                                             192.168.0.101
                                                                 DNS
                                                                            543 Standard query response 0x3921 A www.
      56 22:59:49.818340 192.168.0.101
                                             192.168.0.1
                                                                             72 Standard query 0xfd34 HTTPS www.ietf.c
      57 22:59:49.821834 192.168.0.1
                                             192.168.0.101
                                                                 DNS
                                                                            331 Standard query response 0xfd34 HTTPS v
      58 22:59:49.822179 192.168.0.101
                                                                  TCP
                                                                             66 49715 → 443 [SYN] Seq=0 Win=64240 Len:
> User Datagram Protocol, Src Port: 53, Dst Port: 64654

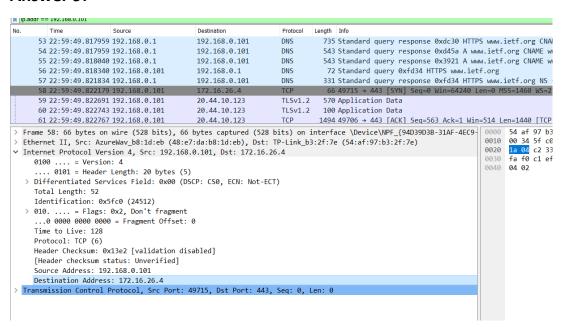
→ Domain Name System (response)

     Transaction ID: 0x3921
   > Flags: 0x8180 Standard query response, No error
     Ouestions: 1
     Answer RRs: 9
     Authority RRs: 13
     Additional RRs: 3
    Oueries
     Name: www.ietf.org
          [Name Length: 12]
          [Label Count: 3]
          Type: A (Host Address) (1)
          Class: IN (0x0001)

✓ Answers

     > www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net
     > www.ietf.org.cdn.cloudflare.net: type CNAME, class IN, cname steam.cache.lancache.net
     > steam.cache.lancache.net: type CNAME, class IN, cname cache.jatrabarionline.com
     > cache.jatrabarionline.com: type A, class IN, addr 172.16.26.2
     > cache.jatrabarionline.com: type A, class IN, addr 172.16.26.1
     > cache.jatrabarionline.com: type A, class IN, addr 172.16.26.4
     > cache.jatrabarionline.com: type A, class IN, addr 172.16.26.3
     > cache.jatrabarionline.com: type A, class IN, addr 172.16.26.5
     > cache.iatrabarionline.com: type A. class TN. addr 172.16.26.6
```

Answer 9:

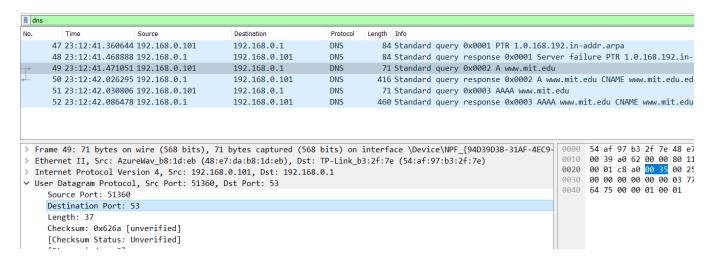


Yes. The destination ip address of the SYN packet correspond to ip address: **172.16.26.4** provided in the response message.

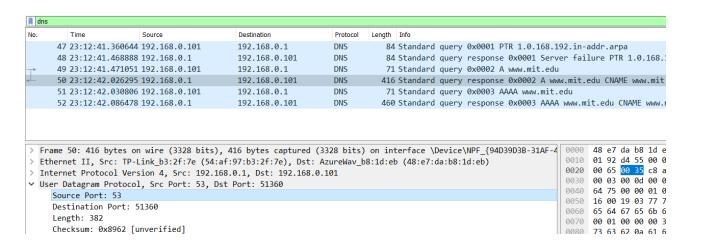
Answer 10:

No. host doesn't issue new DNS query before retrieving each image.

Answer 11:



The destination port of the query message: 53



The source port of the response message: 53

Answer 12:

	48 23:12:41.468888 192.168.0.1	192.168.0.101	DNS	84 Standard query response 0x0001 Serve
ja-	49 23:12:41.471051 192.168.0.101	192.168.0.1	DNS	71 Standard query 0x0002 A www.mit.edu
-	50 23:12:42.026295 192.168.0.1	192.168.0.101	DNS	416 Standard query response 0x0002 A www
	51 23:12:42.030806 192.168.0.101	192.168.0.1	DNS	71 Standard query 0x0003 AAAA www.mit.e
	52 23:12:42.086478 192.168.0.1	192.168.0.101	DNS	460 Standard query response 0x0003 AAAA i

```
Frame 49: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface \Device\NPF_(94D39D3B-31AF-4EC9-Ethernet II, Src: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb), Dst: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e)

Internet Protocol Version 4, Src: 192.168.0.101, Dst: 192.168.0.1

0100 .... = Version: 4

.... 0101 = Header Length: 20 bytes (5)

Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

Total Length: 57

Identification: 0xa062 (41058)

0000 .... = Flags: 0x0

...0 0000 0000 0000 = Fragment Offset: 0

Time to Live: 128

Protocol: UDP (17)

Header Checksum: 0x189b [validation disabled]

[Header checksum: 0x189b [validation disabled]

[Header checksum: 192.168.0.101

Destination Address: 192.168.0.1
```

DNS query message was sent to IP address: 192.168.0.1

```
Connection-specific DNS Suffix .:
 Description . . . . . . . . . : Realtek RTL8822CE 802.11ac PCIe Adapter
 Physical Address. . . . . . . . : 48-E7-DA-B8-1D-EB
 DHCP Enabled. . . . . . . . : Yes
 Autoconfiguration Enabled . . . . : Yes
 Link-local IPv6 Address . . . . . : fe80::3fa2:2b18:49a:8eb%13(Preferred)
 IPv4 Address. . . . . . . . . . : 192.168.0.101(Preferred)
 Subnet Mask . . . . . . . . . : 255.255.255.0
 Lease Obtained. . . . . . . . : 13 February, 2023 8:49:20 PM
 Lease Expires . . . . . . . . : 14 February, 2023 12:43:42 AM
 Default Gateway . . . . . . . : 192.168.0.1
 DHCP Server . . . . . . . . : 192.168.0.1
 DHCPv6 IAID . . . . . . . . : 138995674
 DHCPv6 Client DUID. . . . . . . : 00-01-00-01-2A-50-B0-CB-E0-70-EA-54-D1-86
                  . . . . . . . : 192.168.0.1
 DNS Servers . .
 NetBIOS over Tcpip. . . . . . : Enabled
hernet adapter Bluetooth Network Connection:
```

Ip address of local DNS server: 192.168.0.1

Both ip addresses are same.

Answer 13:

```
Protocol
                                                                          Length Info
No.
         Time
                        Source
                                             Destination
      47 23:12:41.360644 192.168.0.101
                                             192.168.0.1
                                                                  DNS
                                                                             84 Standard query 0x0001 PTR 1.0.168.192.in
      48 23:12:41.468888 192.168.0.1
                                             192.168.0.101
                                                                  DNS
                                                                             84 Standard query response 0x0001 Server fai
      49 23:12:41.471051 192.168.0.101
                                             192.168.0.1
                                                                  DNS
                                                                             71 Standard query 0x0002 A www.mit.edu
      50 23:12:42.026295 192.168.0.1
                                             192.168.0.101
                                                                  DNS
                                                                            416 Standard query response 0x0002 A www.mit
      51 23:12:42.030806 192.168.0.101
                                             192.168.0.1
                                                                  DNS
                                                                             71 Standard query 0x0003 AAAA www.mit.edu
                                                                            460 Standard query response 0x0003 AAAA www.m
      52 23:12:42.086478 192.168.0.1
                                             192.168.0.101
                                                                  DNS
> Frame 49: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface \Device\NPF_{94D39D3B-31AF-4EC9-
                                                                                                                    0010
> Ethernet II, Src: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb), Dst: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e)
                                                                                                                    0020
> Internet Protocol Version 4, Src: 192.168.0.101, Dst: 192.168.0.1
                                                                                                                    0030
> User Datagram Protocol, Src Port: 51360, Dst Port: 53
                                                                                                                    0040

→ Domain Name System (query)

     Transaction ID: 0x0002
   > Flags: 0x0100 Standard guery
     Questions: 1
     Answer RRs: 0
     Authority RRs: 0
     Additional RRs: 0

✓ Queries

     Name: www.mit.edu
          [Name Length: 11]
          [Label Count: 3]
          Type: A (Host Address) (1)
          Class: TN (0x0001)
```

DNS query message type: A. No. query message doesn't contain any answer.

Answer 14:

-	49 23:12:41.471051 192.168.0.101	192.168.0.1	DNS	71 Standard query 0x0002 A www.mit.edu
_	50 23:12:42.026295 192.168.0.1	192.168.0.101	DNS	416 Standard query response 0x0002 A www.mit.e
	51 23:12:42.030806 192.168.0.101	192.168.0.1	DNS	71 Standard query 0x0003 AAAA www.mit.edu
	52 23:12:42.086478 192.168.0.1	192.168.0.101	DNS	460 Standard query response 0x0003 AAAA www.mi

```
> Frame 50: 416 bytes on wire (3328 bits), 416 bytes captured (3328 bits) on interface \Device\NPF {94D39D3B-31Al ^
> Ethernet II, Src: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e), Dst: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb)
                                                                                                                  0020
> Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.101
                                                                                                                  0030
 User Datagram Protocol, Src Port: 53, Dst Port: 51360
                                                                                                                  0040
/ Domain Name System (response)
                                                                                                                  0050
    Transaction ID: 0x0002
                                                                                                                  0060
  > Flags: 0x8180 Standard query response, No error
                                                                                                                  0070
    Questions: 1
                                                                                                                  9989
    Answer RRs: 3
                                                                                                                  0090
    Authority RRs: 13
                                                                                                                  00a0
                                                                                                                  00b0
    Additional RRs: 3
                                                                                                                  00c0
  Oueries
                                                                                                                  00d0
     00e0
         Name: www.mit.edu
                                                                                                                  00f0
         [Name Length: 11]
                                                                                                                 0100
         [Label Count: 3]
                                                                                                                 0110
         Type: A (Host Address) (1)
                                                                                                                 0120
         Class: IN (0x0001)
                                                                                                                 0130
                                                                                                                 0140
     > www.mit.edu: type CNAME, class IN, cname www.mit.edu.edgekey.net
                                                                                                                 0150
     > www.mit.edu.edgekey.net: type CNAME, class IN, cname e9566.dscb.akamaiedge.net
                                                                                                                 0160
                                                                                                                 0170
     e9566.dscb.akamaiedge.net: type A, class IN, addr 23.207.142.26
                                                                                                                 0180

▼ Authoritative nameservers
```

Response message contain 3 answers.

Each of these answers contains: host name, type, class, ip address, CNAME.

Answer 16:

```
14 23:17:40.571007 192.168.0.1
                                           192.108.0.101
                                                               DNZ
                                                                          84 Standard query response שאטטעט S
     15 23:17:40.573688 192.168.0.101 192.168.0.1
                                                           DNS 67 Standard query 0x0002 NS mit.edu
     16 23:17:40.630466 192.168.0.1
                                           192.168.0.101
                                                               DNS
                                                                          378 Standard query response 0x0002 N
> Frame 15: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface \Device\NPF_{94D39D3B-31AF-4E
> Ethernet II, Src: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb), Dst: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e)
Internet Protocol Version 4, Src: 192.168.0.101, Dst: 192.168.0.1
    0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 53
    Identification: 0xa202 (41474)
  > 000. .... = Flags: 0x0
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: UDP (17)
    Header Checksum: 0x16ff [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.0.101
    Destination Address: 192.168.0.1
> User Datagram Protocol, Src Port: 51132, Dst Port: 53
> Domain Name System (query)
```

DNS query message was sent to IP address: 192.168.0.1

```
Connection-specific DNS Suffix .:
 Description . . . . . . . . . : Realtek RTL8822CE 802.11ac PCIe Adapter
 Physical Address. . . . . . . : 48-E7-DA-B8-1D-EB
 DHCP Enabled. . . . . . . . : Yes
 Autoconfiguration Enabled . . . . : Yes
 Link-local IPv6 Address . . . . . : fe80::3fa2:2b18:49a:8eb%13(Preferred)
 IPv4 Address. . . . . . . . . . : 192.168.0.101(Preferred)
 Subnet Mask . . . . . . . . . : 255.255.255.0
 Lease Obtained. . . . . . . . . : 13 February, 2023 8:49:20 PM
 Lease Expires . . . . . . . . . : 14 February, 2023 12:43:42 AM
 Default Gateway . . . . . . : 192.168.0.1
 DHCP Server . . . . . . . . . : 192.168.0.1
 DHCPv6 IAID . . . . . . . . . . : 138995674
 DHCPv6 Client DUID. . . . . . . : 00-01-00-01-2A-50-B0-CB-E0-70-EA-54-D1-86
                   . . . . . . : 192.168.0.1
NetBIOS over Tcpip. . . . . . : Enabled
chernet adapter Bluetooth Network Connection:
```

Ip address of local DNS server: 192.168.0.1

Both ip addresses are same.

Answer 17:

```
dns
         Time
                          Source
                                               Destination
                                                                     Protocol
                                                                             Length Info
                                                                                84 Standard query 0x0001 PTR 1.0.168.192
      13 23:17:40.452364 192.168.0.101
                                               192.168.0.1
                                                                    DNS
       14 23:17:40.571007 192.168.0.1
                                               192.168.0.101
                                                                    DNS
                                                                                84 Standard query response 0x0001 Server
      15 23:17:40.573688 192.168.0.101
                                                                                67 Standard query 0x0002 NS mit.edu
                                               192.168.0.1
                                                                     DNS
      16 23:17:40.630466 192.168.0.1
                                               192.168.0.101
                                                                    DNS
                                                                               378 Standard query response 0x0002 NS mit
> Frame 15: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface \Device\NPF_{94D39D3B-31AF-4EC9-
> Ethernet II, Src: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb), Dst: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e)
> Internet Protocol Version 4, Src: 192.168.0.101, Dst: 192.168.0.1
> User Datagram Protocol, Src Port: 51132, Dst Port: 53
V Domain Name System (query)
     Transaction ID: 0x0002
   > Flags: 0x0100 Standard query
     Questions: 1
     Answer RRs: 0
     Authority RRs: 0
     Additional RRs: 0

✓ Queries

✓ mit.edu: type NS, class IN

           Name: mit.edu
           [Name Length: 7]
           [Label Count: 2]
           Type: NS (authoritative Name Server) (2)
           Class: IN (0x0001)
      [Response In: 16]
```

Type: NS. No, it doesn't contain any answer.

Answer 18:

```
14 23:17:40.571007 192.168.0.1 192.168.0.101 DNS 84 Standard query response 0x0001 Set 15 23:17:40.573688 192.168.0.101 192.168.0.1 DNS 67 Standard query 0x0002 NS mit.edu 16 23:17:40.630466 192.168.0.1 192.168.0.101 DNS 378 Standard query response 0x0002 NS
```

```
> Frame 16: 378 bytes on wire (3024 bits), 378 bytes captured (3024 bits) on interface \Device\NPF_{94D39D3B-31AF
> Ethernet II, Src: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e), Dst: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb)
 Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.101
> User Datagram Protocol, Src Port: 53, Dst Port: 51132

→ Domain Name System (response)

     Transaction ID: 0x0002
  > Flags: 0x8180 Standard query response, No error
     Questions: 1
     Answer RRs: 8
     Authority RRs: 8
     Additional RRs: 2
  > Oueries
  > Answers
  Authoritative nameservers
       mit.edu: type NS, class IN, ns ns1-37.akam.net
      > mit.edu: type NS, class IN, ns use5.akam.net
     > mit.edu: type NS, class IN, ns ns1-173.akam.net
     > mit.edu: type NS, class IN, ns usw2.akam.net
     > mit.edu: type NS, class IN, ns eur5.akam.net
     > mit.edu: type NS, class IN, ns asia1.akam.net
     > mit.edu: type NS, class IN, ns use2.akam.net
      > mit.edu: type NS, class IN, ns asia2.akam.net
  > Additional records
```

Total answer: 08

Each of the response contain> host name, type, class, server name.

```
> Queries
> Answers

    Authoritative nameservers
         mit.edu: type NS, class IN, ns ns1-37.akam.net
         mit.edu: type NS, class IN, ns use5.akam.net
         mit.edu: type NS, class IN, ns ns1-173.akam.net
         mit.edu: type NS, class IN, ns usw2.akam.net
         mit.edu: type NS, class IN, ns eur5.akam.net
         mit.edu: type NS, class IN, ns asia1.akam.net
         mit.edu: type NS, class IN, ns use2.akam.net
         mit.edu: type NS, class IN, ns asia2.akam.net
         mit.edu: type NS, class IN, ns asia2.akam.net
         vadditional records
         use2.akam.net: type A, class IN, addr 96.7.49.64
         use2.akam.net: type A, class IN, addr 96.7.49.64
         [Request In: 15]
```

In the additional records, the ip addresses are provided.

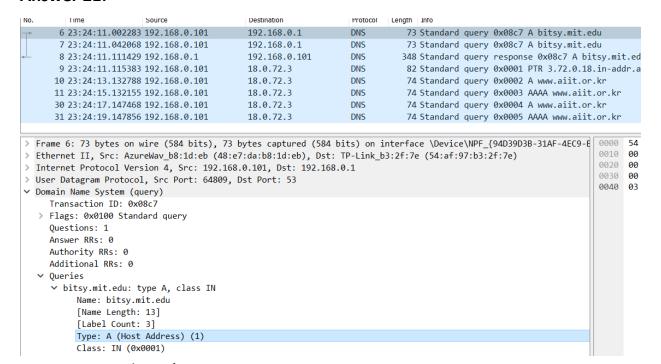
Answer 20:

no, it is not the ip address of default local DNS server.

```
use2.akam.net internet address = 96.7.49.64
DNS request timed out.
   timeout was 2 seconds.
Server: UnKnown
Address: 18.0.72.3
DNS request timed out.
   timeout was 2 seconds.
*** Request to UnKnown timed-out
PS C:\Users\HP> _
```

Ip address: **18.0.72.3**

Answer 21:



type: A. no, it doesn't contain any answer.

Answer 22:

```
6 23:24:11.002283 192.168.0.101
                                              192.168.0.1
                                                                    DNS
                                                                                73 Standard query 0x08c7 A bitsy.mit.edu
       7 23:24:11.042068 192.168.0.101
                                              192.168.0.1
                                                                    DNS
                                                                                73 Standard query 0x08c7 A bitsy.mit.edu
       8 23:24:11.111429 192.168.0.1
                                              192.168.0.101
                                                                   DNS
                                                                              348 Standard query response 0x08c7 A bitsy.
       9 23:24:11.115383 192.168.0.101
                                              18.0.72.3
                                                                   DNS
                                                                               82 Standard query 0x0001 PTR 3.72.0.18.in-
      10 23:24:13.132788 192.168.0.101
                                              18.0.72.3
                                                                    DNS
                                                                                74 Standard query 0x0002 A www.aiit.or.kr
      11 23:24:15.132155 192.168.0.101
                                              18.0.72.3
                                                                    DNS
                                                                                74 Standard query 0x0003 AAAA www.aiit.or.
      30 23:24:17.147468 192.168.0.101
                                              18.0.72.3
                                                                   DNS
                                                                               74 Standard query 0x0004 A www.aiit.or.kr
      31 23:24:19.147856 192.168.0.101
                                              18.0.72.3
                                                                   DNS
                                                                               74 Standard query 0x0005 AAAA www.aiit.or.
  Frame 8: 348 bytes on wire (2784 bits), 348 bytes captured (2784 bits) on interface \Device\NPF_{94D39D3B-31AF-4E
  Ethernet II, Src: TP-Link_b3:2f:7e (54:af:97:b3:2f:7e), Dst: AzureWav_b8:1d:eb (48:e7:da:b8:1d:eb)
                                                                                                                       000
  Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.101
                                                                                                                       003
> User Datagram Protocol, Src Port: 53, Dst Port: 64809
                                                                                                                       004

✓ Domain Name System (response)

                                                                                                                       005
     Transaction ID: 0x08c7
                                                                                                                       006
   > Flags: 0x8180 Standard query response, No error
                                                                                                                       007
     Ouestions: 1
                                                                                                                       008
     Answer RRs: 1
                                                                                                                       009
     Authority RRs: 13
                                                                                                                       008
     Additional RRs: 3
                                                                                                                       00t
                                                                                                                       000
   > Oueries
                                                                                                                       000
  Answers
                                                                                                                       006
      > bitsy.mit.edu: type A, class IN, addr 18.0.72.3
                                                                                                                       00-
   > Authoritative nameservers
                                                                                                                       010

    Additional records

                                                                                                                       011
     > a.root-servers.net: type A, class IN, addr 198.41.0.4
                                                                                                                       012
      > e.root-servers.net: type A, class IN, addr 192.203.230.10
                                                                                                                       013
      > h.root-servers.net: type A, class IN, addr 198.97.190.53
                                                                                                                       014
     [Request In: 6]
                                                                                                                       015
```

Answer: 1. Answer contains: host name, type, class, ip address.