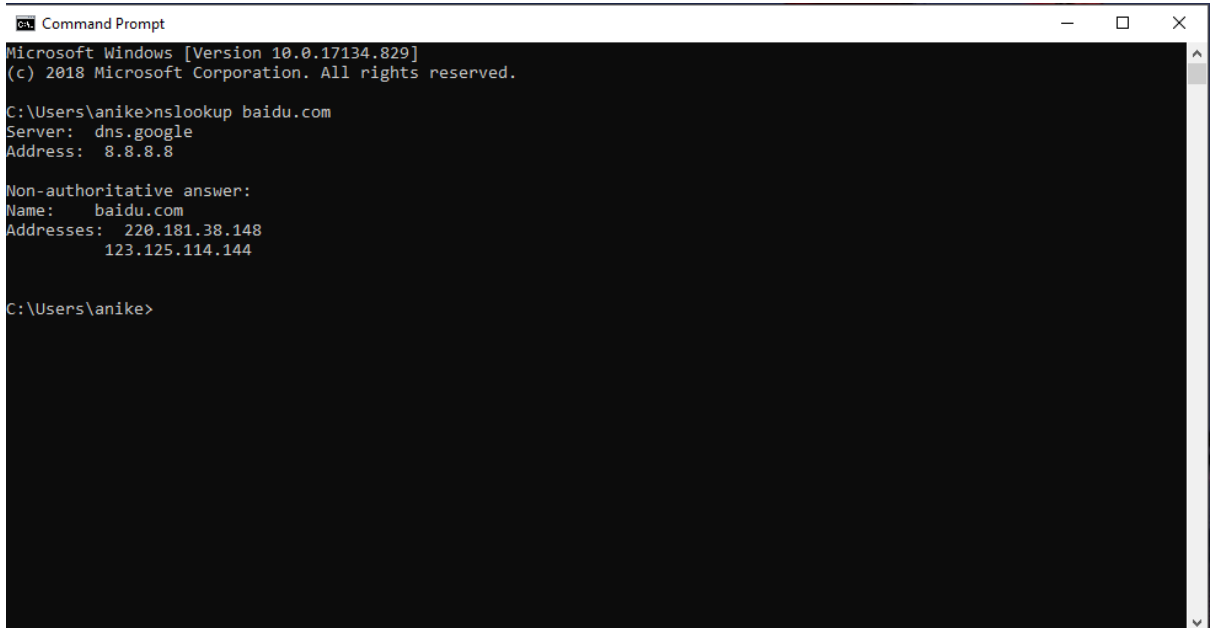


CSE-5344 Lab 1

Submitted by:
Aniket Gade
UTA ID - 1001505046

1. Run nslookup to obtain the IP address of a Web server in Asia. What is the IP address of that server?



```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
(c) 2018 Microsoft Corporation. All rights reserved.

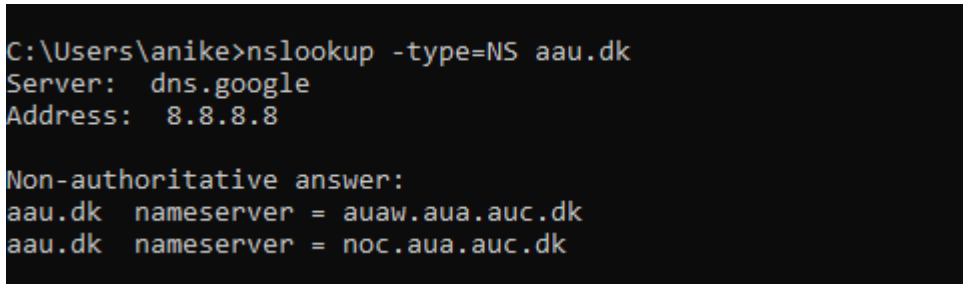
C:\Users\anike>nslookup baidu.com
Server:  dns.google
Address:  8.8.8.8

Non-authoritative answer:
Name:     baidu.com
Addresses: 220.181.38.148
          123.125.114.144

C:\Users\anike>
```

The IP address of baidu.com's server is 220.181.38.148.

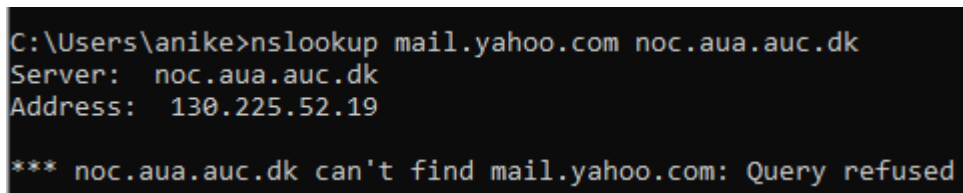
2. Run nslookup to determine the authoritative DNS servers for a university in Europe.



```
C:\Users\anike>nslookup -type=NS aau.dk
Server:  dns.google
Address:  8.8.8.8

Non-authoritative answer:
aau.dk  nameserver = auaw.aua.auc.dk
aau.dk  nameserver = noc.aua.auc.dk
```

3. Run nslookup so that one of the DNS servers obtained in Question 2 is queried for the mail servers for Yahoo! mail. What is its IP address?



```
C:\Users\anike>nslookup mail.yahoo.com noc.aua.auc.dk
Server:  noc.aua.auc.dk
Address:  130.225.52.19

*** noc.aua.auc.dk can't find mail.yahoo.com: Query refused
```

The IP address is 130.225.52.19

Part 2

4. Locate the DNS query and response messages. Are they sent over UDP or TCP?

a) Query:

Wireshark packet capture showing a DNS query (packet 72) from 10.219.172.172 to 208.67.220.220. The packet is a Standard query type, transaction ID 0x8136, asking for www.ietf.org. The interface is eth0.

No.	Time	Source	Destination	Protocol	Length	Info
13	3.893566	104.20.1.85	10.219.172.172	TCP	60	443 → 58581 [ACK] Seq=1 Ack=549 Win=30720 Len=0
11	3.888080	10.219.172.172	104.20.1.85	TCP	54	58581 → 443 [ACK] Seq=1 Ack=1 Win=65384 Len=0
10	3.888080	104.20.1.85	10.219.172.172	TCP	60	443 → 58581 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1360 SACK_PERM=1 WS=1824
9	3.870554	10.219.172.172	104.20.1.85	TCP	66	58581 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1400 WS=256 SACK_PERM=1
8	3.714454	10.219.172.172	10.219.172.172	TCP	54	58572 → 443 [ACK] Seq=1 Ack=1 Win=259 Len=0
4	3.671654	10.219.172.172	10.219.172.172	TCP	54	58572 → 443 [FIN, ACK] Seq=1 Ack=1 Win=259 Len=0
3	0.847000	10.219.172.172	52.114.132.22	TCP	54	58557 → 443 [ACK] Seq=2 Ack=2 Win=1822 Len=0
2	0.840919	52.114.132.22	10.219.172.172	TCP	60	443 → 58557 [FIN, ACK] Seq=1 Ack=2 Win=1838 Len=0
1	0.800000	10.219.172.172	52.114.132.22	TCP	54	58557 → 443 [FIN, ACK] Seq=1 Ack=1 Win=1822 Len=0
1885	5.419966	208.67.220.220	10.219.172.172	DNS	91	Standard query response 0x91a4 A s.joinhoney.com A 130.211.26.229
1884	5.411165	10.219.172.172	208.67.220.220	DNS	75	Standard query 0x91a4 A s.joinhoney.com
327	4.461371	208.67.220.220	10.219.172.172	DNS	183	Standard query response 0xcddc A safebrowsing.googleapis.com A 216.58.194.138
323	4.451811	10.219.172.172	208.67.220.220	DNS	87	Standard query 0xcddc A safebrowsing.googleapis.com
8	3.877207	208.67.220.220	10.219.172.172	DNS	149	Standard query response 0x8136 A www.ietf.org CNAME www.ietf.org.cdn.cloudflare.net A 104.20.1.85 A 104.20.8.85
7	3.721871	10.219.172.172	208.67.220.220	DNS	72	Standard query 0x8136 A www.ietf.org
6	2.720138	10.219.172.172	8.8.8.8	DNS	72	Standard query 0x8136 A www.ietf.org

Frame 72: 72 bytes on wire (576 bits), 72 bytes captured (576 bits) on interface 0
Ethernet II, Src: Rivetnet_e6bf:47 (9c:b6:0e:b6:bf:47), Dst: Cisco_27:00:00 (08:25:35:27:00:00)
Internet Protocol Version 4, Src: 10.219.172.172, Dst: 208.67.220.220
UDP ...
... 0101 = Header Length: 20 bytes (5)
Total length: 58
Identification: 0x3b31 (15153)
Flags: 0x0000
Time to live: 128
Protocol: UDP (17)
Header checksum: 0x9ada [validation disabled]
[Header checksum status: Unverified]
Source: 10.219.172.172
Destination: 208.67.220.220
User Datagram Protocol, Src Port: 53238, Dst Port: 53
Domain Name System (query)
Transaction ID: 0x8136
Flags: 0x0100 Standard query
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
[Response In: 8]

b) Response:

Wireshark packet capture showing a DNS response (packet 8) from 208.67.220.220 to 10.219.172.172. The packet is a Standard query response, transaction ID 0x8136, containing the IP address 104.20.1.85 for www.ietf.org. The interface is eth0.

No.	Time	Source	Destination	Protocol	Length	Info
13	3.893566	104.20.1.85	10.219.172.172	TCP	60	443 → 58581 [ACK] Seq=1 Ack=549 Win=30720 Len=0
11	3.888080	10.219.172.172	104.20.1.85	TCP	54	58581 → 443 [ACK] Seq=1 Ack=1 Win=65384 Len=0
10	3.888080	104.20.1.85	10.219.172.172	TCP	60	443 → 58581 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1360 SACK_PERM=1 WS=1824
9	3.870554	10.219.172.172	104.20.1.85	TCP	66	58581 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1400 WS=256 SACK_PERM=1
8	3.714454	10.219.172.172	10.219.172.172	TCP	54	58572 → 443 [ACK] Seq=1 Ack=1 Win=259 Len=0
4	3.671654	10.219.172.172	10.219.172.172	TCP	54	58572 → 443 [FIN, ACK] Seq=1 Ack=1 Win=259 Len=0
3	0.847000	10.219.172.172	52.114.132.22	TCP	54	58557 → 443 [ACK] Seq=2 Ack=2 Win=1822 Len=0
2	0.840919	52.114.132.22	10.219.172.172	TCP	60	443 → 58557 [FIN, ACK] Seq=1 Ack=2 Win=1838 Len=0
1	0.800000	10.219.172.172	52.114.132.22	TCP	54	58557 → 443 [FIN, ACK] Seq=1 Ack=1 Win=1822 Len=0
1885	5.419966	208.67.220.220	10.219.172.172	DNS	91	Standard query response 0x91a4 A s.joinhoney.com A 130.211.26.229
1884	5.411165	10.219.172.172	208.67.220.220	DNS	75	Standard query 0x91a4 A s.joinhoney.com
327	4.461371	208.67.220.220	10.219.172.172	DNS	183	Standard query response 0xcddc A safebrowsing.googleapis.com A 216.58.194.138
323	4.451811	10.219.172.172	208.67.220.220	DNS	87	Standard query 0xcddc A safebrowsing.googleapis.com
8	3.877207	208.67.220.220	10.219.172.172	DNS	149	Standard query response 0x8136 A www.ietf.org CNAME www.ietf.org.cdn.cloudflare.net A 104.20.1.85 A 104.20.8.85
7	3.721871	10.219.172.172	208.67.220.220	DNS	72	Standard query 0x8136 A www.ietf.org
6	2.720138	10.219.172.172	8.8.8.8	DNS	72	Standard query 0x8136 A www.ietf.org

Identification: 0x0efc (68924)
Flags: 0x0000, Don't fragment
Time to live: 57
Protocol: UDP (17)
Header checksum: 0x0ec1 [validation disabled]
[Header checksum status: Unverified]
Source: 208.67.220.220
Destination: 10.219.172.172
User Datagram Protocol, Src Port: 53, Dst Port: 53238
Domain Name System (response)
Transaction ID: 0x8136
Flags: 0x0100 Standard query response, No error
Questions: 1
Answer RRs: 3
Authority RRs: 0
Additional RRs: 0
Queries
Answers

They are sent over UDP.

5. What is the destination port for the DNS query message? What is the source port of DNS response message?

The destination port for DNS query is 53 and the source port of DNS response is 53.

6. To what IP address is the DNS query message sent? Use ipconfig to determine the IP address of your local DNS server. Are these two IP addresses the same?

```

C:\Windows\system32\cmd.exe

Physical Address. . . . . : AE-B6-D0-E6-BF-47
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : localhost
Description . . . . . : Killer Wireless-n/a/ac 1535 Wireless Network Adapter
Physical Address. . . . . : 9C-B6-D0-E6-BF-47
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . : fe80::90a1:c79f:9ae5:b50d%18(Preferred)
IPv4 Address. . . . . : 10.219.172.172(Preferred)
Subnet Mask . . . . . : 255.255.128.0
Lease Obtained. . . . . : 01 July 2019 18:15:55
Lease Expires . . . . . : 02 July 2019 00:49:18
Default Gateway . . . . . : 10.219.128.1
DHCP Server . . . . . : 64.189.0.10
DHCPv6 IAID . . . . . : 178042576
DHCPv6 Client DUID. . . . . : 00-01-00-01-24-04-E0-AF-9C-B6-D0-E6-BF-47
DNS Servers . . . . . : 8.8.8.8
                        208.67.220.220
                        4.2.2.2
NetBIOS over Tcpip. . . . . : Enabled

```

It's sent to 208.67.220.220, which is same as one of my DNS servers.

- Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

It is a type A Standard Query and it does not contain any answers.

- Examine the DNS response message. How many "answers" are provided? What do each of these answers contain?

The Wireshark packet capture shows a DNS query (packet 5) and a DNS response (packet 6). The query is a standard query for the domain `www.ietf.org`. The response contains three answers:

- Answer 1:** A CNAME record for `www.ietf.org` pointing to `www.ietf.org.cdn.cloudflare.net`. The TTL is 300 seconds.
- Answer 2:** An A record for `www.ietf.org.cdn.cloudflare.net` with IP address `104.20.1.85`. The TTL is 300 seconds.
- Answer 3:** An A record for `www.ietf.org.cdn.cloudflare.net` with IP address `104.20.0.85`. The TTL is 300 seconds.

There were 3 answers containing information about the name of the host, type of address, class, the Time To Live (TTL), the data length and the IP.

- Consider the subsequent TCP SYN packet sent by your host. Does the destination IP address of the SYN packet correspond to any of the IP addresses provided in the DNS response message?

The TCP SYN packet was sent to 104.20.1.85 which corresponds to the IP address provided in the DNS response message.

10. This web page contains images. Before retrieving each image, does your host issue new DNS queries?
No.

Part 3

11. What is the destination port for the DNS query message? What is the source port of DNS response message?

a) Query

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.219.172.172	8.8.8.8	DNS	80	Standard query 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
2	0.017271	8.8.8.8	10.219.172.172	DNS	184	Standard query response 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
3	0.018682	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0002 A www.mit.edu.localhost
4	0.019729	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0002 No such name A www.mit.edu.localhost SOA a.root-servers.net
5	0.031191	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0003 AAAA www.mit.edu.localhost
6	0.040342	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0003 No such name AAAA www.mit.edu.localhost SOA a.root-servers.net
7	0.040763	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0004 A www.mit.edu
8	0.202811	8.8.8.8	10.219.172.172	DNS	160	Standard query response 0x0004 A www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net A 23.200.31.100
9	0.228467	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0005 AAAA www.mit.edu
10	0.261829	8.8.8.8	10.219.172.172	DNS	200	Standard query response 0x0005 AAAA www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net AAAA 2600:1404:27:2a2::255e AAAA 2600:1404:27:2b2::255e
11	0.367293	10.219.172.172	143.204.165.132	TCP	55	51682 → 443 [ACK] Seq=1 Ack=1 Win=257 Len=1 [TCP segment of a reassembled PDU]
12	0.375518	143.204.165.132	10.219.172.172	TCP	60	443 → 51682 [ACK] Seq=1 Ack=2 Win=123 Len=0

Frame 9: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface 0
Ethernet II, Src: Rixnet-e6:b7:47 (0c:b6:00:e6:b7:47), Dst: Cisco_27:00:00 (08:25:83:27:00:00)
Internet Protocol Version 4, Src: 10.219.172.172, Dst: 8.8.8.8
User Datagram Protocol, Src Port: 64751, Dst Port: 53
Source Port: 64751
Destination Port: 53
Length: 37
Checksum: 0acd37 [unverified]
[Checksum Status: unverified]
[Stream Index: 4]
[Timestamps]
Domain Name System (query)

b) Response

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.219.172.172	8.8.8.8	DNS	80	Standard query 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
2	0.017271	8.8.8.8	10.219.172.172	DNS	184	Standard query response 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
3	0.018682	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0002 A www.mit.edu.localhost
4	0.019729	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0002 No such name A www.mit.edu.localhost SOA a.root-servers.net
5	0.031191	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0003 AAAA www.mit.edu.localhost
6	0.040342	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0003 No such name AAAA www.mit.edu.localhost SOA a.root-servers.net
7	0.040763	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0004 A www.mit.edu
8	0.202811	8.8.8.8	10.219.172.172	DNS	160	Standard query response 0x0004 A www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net A 23.200.31.100
9	0.228467	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0005 AAAA www.mit.edu
10	0.261829	8.8.8.8	10.219.172.172	DNS	200	Standard query response 0x0005 AAAA www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net AAAA 2600:1404:27:2a2::255e AAAA 2600:1404:27:2b2::255e
11	0.367293	10.219.172.172	143.204.165.132	TCP	55	51682 → 443 [ACK] Seq=1 Ack=1 Win=257 Len=1 [TCP segment of a reassembled PDU]
12	0.375518	143.204.165.132	10.219.172.172	TCP	60	443 → 51682 [ACK] Seq=1 Ack=2 Win=123 Len=0

Frame 10: 200 bytes on wire (1600 bits), 200 bytes captured (1600 bits) on interface 0
Ethernet II, Src: Cisco_27:00:00 (08:25:83:27:00:00), Dst: Rixnet-e6:b7:47 (0c:b6:00:e6:b7:47)
Internet Protocol Version 4, Src: 8.8.8.8, Dst: 10.219.172.172
User Datagram Protocol, Src Port: 53, Dst Port: 64751
Source Port: 53
Destination Port: 64751
Length: 166
Checksum: 0bf3dd [unverified]
[Checksum Status: unverified]
[Stream Index: 4]
[Timestamps]
Domain Name System (response)

The destination port for DNS query is 53 and the source port of DNS response is 53.

12. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?

It's sent to 8.8.8.8, which is same as one of my DNS servers.

13. Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

The query is of type A and it does not contain any answers.

14. Examine the DNS response message. How many "answers" are provided? What do each of these answers contain?

There were 3 answers containing information about the name of the host, type of address, class, the Time To Live (TTL), the data length and the IP.

15. Provide a Screenshot

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.219.172.172	8.8.8.8	DNS	80	Standard query 0x0001 PTR 8.8.8.8.in-addr.arpa
2	0.017271	8.8.8.8	10.219.172.172	DNS	184	Standard query response 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
3	0.018682	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0002 A www.mit.edu.localhost
4	0.032729	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0002 No such name A www.mit.edu.localhost SOA a.root-servers.net
5	0.033191	10.219.172.172	8.8.8.8	DNS	81	Standard query 0x0003 AAAA www.mit.edu.localhost
6	0.040342	8.8.8.8	10.219.172.172	DNS	156	Standard query response 0x0003 No such name AAAA www.mit.edu.localhost SOA a.root-servers.net
7	0.046763	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0004 A www.mit.edu
8	0.200811	8.8.8.8	10.219.172.172	DNS	168	Standard query response 0x0004 A www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net A 23.200.31.188
9	0.210467	10.219.172.172	8.8.8.8	DNS	71	Standard query 0x0005 AAAA www.mit.edu
10	0.241829	8.8.8.8	10.219.172.172	DNS	200	Standard query response 0x0005 AAAA www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net AAAA 2608:1404:27:2a2::255e AAAA 2608:1404:27:2b2::255e
11	0.367293	10.219.172.172	143.204.165.132	TCP	55	51682 → 443 [ACK] Seq=1 Ack=1 Win=27 Len=1 [TCP segment of a reassembled PDU]
12	0.375518	143.204.165.132	10.219.172.172	TCP	60	443 → 51682 [ACK] Seq=1 Ack=2 Win=23 Len=0

Answer RRs: 3
Authority RRs: 0
Additional RRs: 0

Queries

Answers

- www.mit.edu: type CNAME, class IN, cname www.mit.edu.edgekey.net
Name: www.mit.edu
Type: CNAME (Canonical NAME for an alias) (5)
Class: IN (0x0001)
Time to live: 1799
Data length: 25
CNAME: www.mit.edu.edgekey.net
- www.mit.edu.edgekey.net: type CNAME, class IN, cname e9566.dscb.akamaiedge.net
Name: www.mit.edu.edgekey.net
Type: CNAME (Canonical NAME for an alias) (5)
Class: IN (0x0001)
Time to live: 59
Data length: 24
CNAME: e9566.dscb.akamaiedge.net
- e9566.dscb.akamaiedge.net: type A, class IN, addr 23.200.31.188
Name: e9566.dscb.akamaiedge.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 19
Data length: 4
Address: 23.200.31.188
[Sequence: 23]
[Time: 0.15040000 seconds]

Part 4

16. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?

It's sent to 8.8.8.8, which is same as one of my DNS servers.

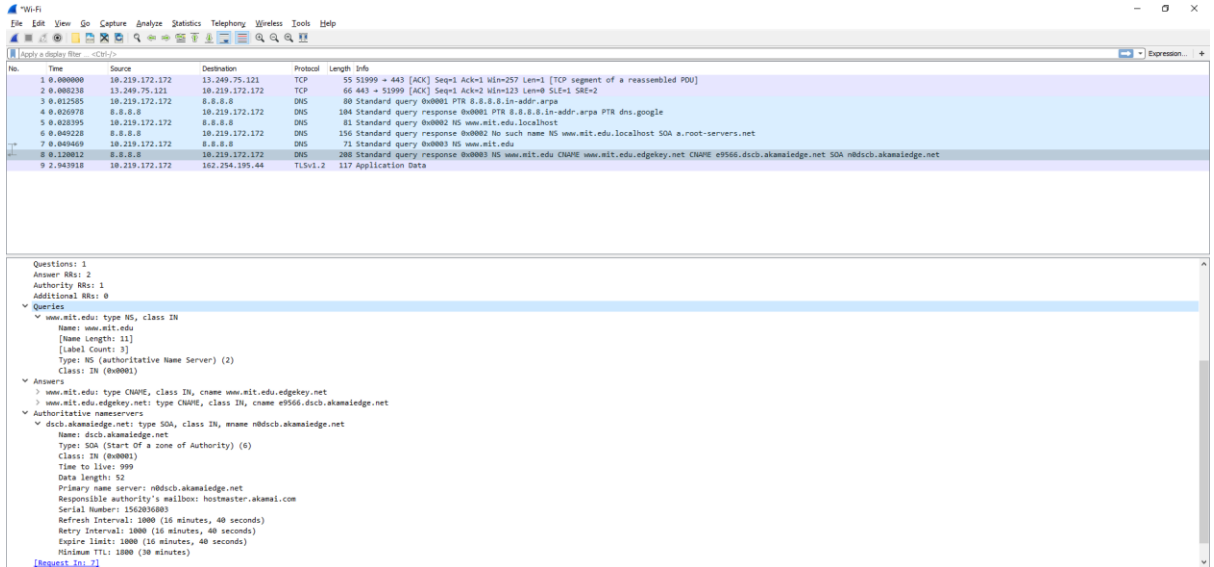
17. Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

The query is of type NS and it does not contain any answers.

18. Examine the DNS response message. What MIT nameservers does the response message provide? Does this response message also provide the IP addresses of the MIT namesers?

The primary name server is n0dscb.akamaiedge.net. The response does not provide the IP address of the nameserver.

19. Provide a screenshot.



Part 5

20. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server? If not, what does the IP address correspond to?

The query is initially sent to 8.8.8.8 then sent to 18.72.0.3 which corresponds to bitsy.mit.edu.

21. Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?

It’s a standard type A query that doesn’t contain any answers.

22. Examine the DNS response message. How many “answers” are provided? What does each of these answers contain?

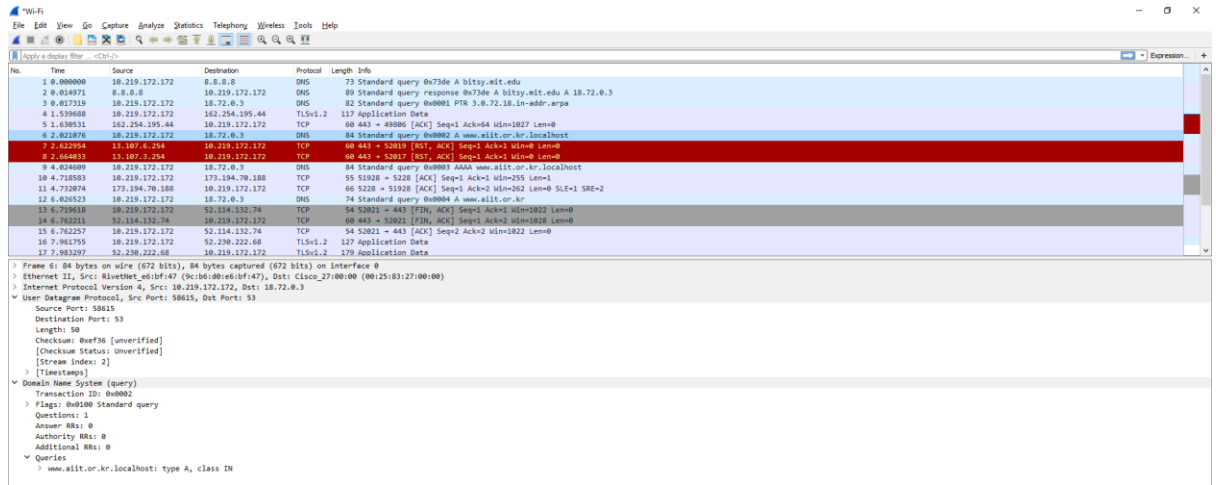
The DNS request was timed out and no response was received. (As shown in the screenshot below)

```
C:\Users\anike>nslookup www.aiit.or.kr bitsy.mit.edu
DNS request timed out.
    timeout was 2 seconds.
Server:    UnKnown
Address:   18.72.0.3

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

C:\Users\anike>
```

23. Provide a Screenshot.



No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.219.172.172	8.8.8.8	DNS	73	Standard query 0x73de A bitsy.mit.edu
2	0.014971	8.8.8.8	10.219.172.172	DNS	89	Standard query response 0x73de A bitsy.mit.edu A 18.72.0.3
3	0.017319	10.219.172.172	10.72.0.3	DNS	82	Standard query 0x0001 PTR 3.0.72.18.in-addr.arpa
4	1.539080	10.219.172.172	162.254.195.44	TLSv1.2	117	Application Data
5	1.630551	162.254.195.44	10.219.172.172	TCP	60	443 → 8080 [ACK] Seq=1 Ack=64 Win=1027 Len=0
6	2.021076	10.219.172.172	18.72.0.3	DNS	84	Standard query 0x0002 A www.aait.or.kr.localhost
7	2.024974	18.72.0.3	10.219.172.172	TCP	60	443 → 8080 [ACK] Seq=1 Ack=64 Win=1027 Len=0
8	2.664033	10.107.3.254	10.219.172.172	TCP	60	443 → 52017 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
9	4.024609	10.219.172.172	18.72.0.3	DNS	84	Standard query 0x0003 AAAA www.aait.or.kr.localhost
10	4.718583	10.219.172.172	173.194.70.188	TCP	55	51928 → 5228 [ACK] Seq=1 Ack=1 Win=255 Len=1
11	4.732074	173.194.70.188	10.219.172.172	TCP	66	5228 → 51928 [ACK] Seq=1 Ack=2 Win=262 Len=0 SILENCE=2
12	4.820523	10.219.172.172	18.72.0.3	DNS	74	Standard query 0x0004 A www.aait.or.kr
13	6.739618	10.219.172.172	52.114.132.74	TCP	54	52021 → 443 [FIN, ACK] Seq=1 Ack=1 Win=1022 Len=0
14	6.742211	52.114.132.74	10.219.172.172	TCP	60	443 → 52021 [FIN, ACK] Seq=1 Ack=2 Win=1028 Len=0
15	6.762257	10.219.172.172	52.114.132.74	TCP	54	52021 → 443 [ACK] Seq=2 Ack=2 Win=1022 Len=0
16	9.961795	10.219.172.172	52.230.222.68	TLSv1.2	127	Application Data
17	9.983297	52.230.222.68	10.219.172.172	TLSv1.2	179	Application Data

Frame 6: 84 bytes on wire (672 bits), 84 bytes captured (672 bits) on Interface 0
> Ethernet II, Src: R101net16:0f:47 (9c:b6:00:06:0f:47), Dst: Cisco_27:00:00 (08:00:27:00:00:00)
> Internet Protocol Version 4, Src: 10.219.172.172, Dst: 18.72.0.3
User Datagram Protocol, Src Port: 58015, Dst Port: 53
Source Port: 58015
Destination Port: 53
Length: 50
Checksum: 0xf36 [unverified]
[Checksum Status: Unverified]
[Stream Index: 2]
[Timestamps]
Domain Name System (query)
Transaction ID: 0x0002
Flags: 0x0100 Standard query
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
> www.aait.or.kr.localhost: type A, class IN