

1.

```
(base) Adams-MacBook-Pro-3:~ AdamAlston$ nslookup www.tsinghua.edu.cn
Server:          192.168.254.254
Address:         192.168.254.254#53

Non-authoritative answer:
Name:   www.tsinghua.edu.cn
Address: 166.111.4.100
```

2.

```
(base) Adams-MacBook-Pro-3:~ AdamAlston$ nslookup -type=NS kcl.ac.uk
Server:          192.168.254.254
Address:         192.168.254.254#53

Non-authoritative answer:
kcl.ac.uk      nameserver = strcnsext.kcl.ac.uk.
kcl.ac.uk      nameserver = dencnsext.kcl.ac.uk.
kcl.ac.uk      nameserver = ns3.ja.net.

Authoritative answers can be found from:
```

3. Doesn't work, tried with -type=MX and mail.yahoo.com

```
(base) Adams-MacBook-Pro-3:~ AdamAlston$ nslookup -type=MX yahoo.com dencnsext.kcl.ac.uk.
Server:          dencnsext.kcl.ac.uk.
Address:         193.61.207.74#53

** server can't find yahoo.com: REFUSED
(base) Adams-MacBook-Pro-3:~ AdamAlston$ nslookup mail.yahoo.com dencnsext.kcl.ac.uk
Server:          dencnsext.kcl.ac.uk
Address:         193.61.207.74#53

** server can't find mail.yahoo.com: REFUSED
```

4. UDP

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org
934	13.542253	192.168.254.70	192.168.254.254	DNS	78	Standard query 0xc7c0 A analytics.ietf.org
1389	13.663757	192.168.254.254	192.168.254.70	DNS	108	Standard query response 0xc7c0 A analytics.ietf.org CNAME analytics.ietf.org
2216	15.948194	192.168.254.70	192.168.254.254	DNS	74	Standard query 0x9f38 A ocsp.apple.com
2217	15.972654	192.168.254.254	192.168.254.70	DNS	140	Standard query response 0x9f38 A ocsp.apple.com CNAME world

▶	Frame 358: 72 bytes on wire (576 bits), 72 bytes captured (576 bits) on interface en0, id 0
▶	Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
▶	Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
▶	User Datagram Protocol, Src Port: 60206, Dst Port: 53

5. Destination: 53 (shown above)

Source: 53

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org
934	13.542253	192.168.254.70	192.168.254.254	DNS	78	Standard query 0xc7c0 A analytics.ietf.org
1389	13.663757	192.168.254.254	192.168.254.70	DNS	108	Standard query response 0xc7c0 A analytics.ietf.org CNAME analytics.ietf.org
2216	15.948194	192.168.254.70	192.168.254.254	DNS	74	Standard query 0x9f38 A ocsf.apple.com
2217	15.972654	192.168.254.254	192.168.254.70	DNS	140	Standard query response 0x9f38 A ocsf.apple.com CNAME world

Frame 359: 149 bytes on wire (1192 bits), 149 bytes captured (1192 bits) on interface en0, id 0
Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)
Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70
User Datagram Protocol, Src Port: 53, Dst Port: 60206

6. 192.168.254.254

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org
934	13.542253	192.168.254.70	192.168.254.254	DNS	78	Standard query 0xc7c0 A analytics.ietf.org
1389	13.663757	192.168.254.254	192.168.254.70	DNS	108	Standard query response 0xc7c0 A analytics.ietf.org CNAME analytics.ietf.org
2216	15.948194	192.168.254.70	192.168.254.254	DNS	74	Standard query 0x9f38 A ocsf.apple.com
2217	15.972654	192.168.254.254	192.168.254.70	DNS	140	Standard query response 0x9f38 A ocsf.apple.com CNAME world

Frame 358: 72 bytes on wire (576 bits), 72 bytes captured (576 bits) on interface en0, id 0
Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
0100 = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 58
Identification: 0xd267 (53863)
Flags: 0x0000
Fragment offset: 0
Time to live: 255
Protocol: UDP (17)
Header checksum: 0x6ab4 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.254.70
Destination: 192.168.254.254

Yes they are the same

```
nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20
nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20
```

7. A, does not contain answers

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org
934	13.542253	192.168.254.70	192.168.254.254	DNS	78	Standard query 0xc7c0 A analytics.ietf.org
1389	13.663757	192.168.254.254	192.168.254.70	DNS	108	Standard query response 0xc7c0 A analytics.ietf.org CNAME analytics.ietf.org
2216	15.948194	192.168.254.70	192.168.254.254	DNS	74	Standard query 0x9f38 A ocsf.apple.com
2217	15.972654	192.168.254.254	192.168.254.70	DNS	140	Standard query response 0x9f38 A ocsf.apple.com CNAME world

Frame 358: 72 bytes on wire (576 bits), 72 bytes captured (576 bits) on interface en0, id 0
Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
User Datagram Protocol, Src Port: 60206, Dst Port: 53
Domain Name System (query)
Transaction ID: 0x0bf5
Flags: 0x0100 Standard query
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
www.ietf.org: type A, class IN

8. 3

Answers contain type, class, time to live, data length, and cname or address

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org	
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org	
<p>▶ Frame 359: 149 bytes on wire (1192 bits), 149 bytes captured (1192 bits) on interface en0, id 0</p> <p>▶ Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)</p> <p>▶ Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70</p> <p>▶ User Datagram Protocol, Src Port: 53, Dst Port: 60206</p> <p>▼ Domain Name System (response)</p> <p>Transaction ID: 0x0bf5</p> <p>▶ Flags: 0x8180 Standard query response, No error</p> <p>Questions: 1</p> <p>Answer RRs: 3</p> <p>Authority RRs: 0</p> <p>Additional RRs: 0</p> <p>▼ Queries</p> <p>▶ www.ietf.org: type A, class IN</p> <p>▼ Answers</p> <p>▼ www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net</p> <p>Name: www.ietf.org</p> <p>Type: CNAME (Canonical NAME for an alias) (5)</p> <p>Class: IN (0x0001)</p> <p>Time to live: 1800 (30 minutes)</p> <p>Data length: 33</p> <p>CNAME: www.ietf.org.cdn.cloudflare.net</p> <p>▼ www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.0.85</p> <p>Name: www.ietf.org.cdn.cloudflare.net</p> <p>Type: A (Host Address) (1)</p> <p>Class: IN (0x0001)</p> <p>Time to live: 300 (5 minutes)</p> <p>Data length: 4</p> <p>Address: 104.20.0.85</p> <p>▼ www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.1.85</p> <p>Name: www.ietf.org.cdn.cloudflare.net</p> <p>Type: A (Host Address) (1)</p> <p>Class: IN (0x0001)</p> <p>Time to live: 300 (5 minutes)</p> <p>Data length: 4</p> <p>Address: 104.20.1.85</p>							

9. Yes

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org	
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org	
360	12.856526	192.168.254.70	104.20.0.85	TCP	78	49511 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSva	
<p>▶ Frame 359: 149 bytes on wire (1192 bits), 149 bytes captured (1192 bits) on interface en0, id 0</p> <p>▶ Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)</p> <p>▶ Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70</p> <p>▶ User Datagram Protocol, Src Port: 53, Dst Port: 60206</p> <p>▼ Domain Name System (response)</p> <p>Transaction ID: 0x0bf5</p> <p>▶ Flags: 0x8180 Standard query response, No error</p> <p>Questions: 1</p> <p>Answer RRs: 3</p> <p>Authority RRs: 0</p> <p>Additional RRs: 0</p> <p>▼ Queries</p> <p>▶ www.ietf.org: type A, class IN</p> <p>▼ Answers</p> <p>▶ www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net</p> <p>▶ www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.0.85</p> <p>▼ www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.1.85</p> <p>Name: www.ietf.org.cdn.cloudflare.net</p> <p>Type: A (Host Address) (1)</p> <p>Class: IN (0x0001)</p> <p>Time to live: 300 (5 minutes)</p> <p>Data length: 4</p> <p>Address: 104.20.1.85</p>							

10. Yes

358	12.772329	192.168.254.70	192.168.254.254	DNS	72	Standard query 0x0bf5 A www.ietf.org	
359	12.855236	192.168.254.254	192.168.254.70	DNS	149	Standard query response 0x0bf5 A www.ietf.org CNAME www.ietf.org	
934	13.542253	192.168.254.70	192.168.254.254	DNS	78	Standard query 0xc7c0 A analytics.ietf.org	
1389	13.663757	192.168.254.254	192.168.254.70	DNS	108	Standard query response 0xc7c0 A analytics.ietf.org CNAME	

11. Destination: 53

Source: 53

322	20.687750	192.168.254.70	192.168.254.254	DNS	71	Standard query 0xd20d A www.mit.edu
323	20.744261	192.168.254.254	192.168.254.70	DNS	160	Standard query response 0xd20d A www.mit.edu CNA
324	24.385153	130.211.33.145	192.168.254.70	TLSv1.2	97	Application Data
325	24.385226	192.168.254.70	130.211.33.145	TCP	66	49718 → 443 [ACK] Seq=71 Ack=94 Win=2047 Len=0 TSval=87233

▶ Frame 322: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
 ▶ Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
 ▶ User Datagram Protocol, Src Port: 50781, Dst Port: 53

12. Address: 192.168.254.254

```
nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20
nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20
```

They are the same

13. A, does not contain answers

322	20.687750	192.168.254.70	192.168.254.254	DNS	71	Standard query 0xd20d A www.mit.edu
323	20.744261	192.168.254.254	192.168.254.70	DNS	160	Standard query response 0xd20d A www.mit.edu CNA
324	24.385153	130.211.33.145	192.168.254.70	TLSv1.2	97	Application Data
325	24.385226	192.168.254.70	130.211.33.145	TCP	66	49718 → 443 [ACK] Seq=71 Ack=94 Win=2047 Len=0 TSval=87233

▶ Frame 322: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
 ▶ Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
 ▶ User Datagram Protocol, Src Port: 50781, Dst Port: 53
 ▼ Domain Name System (query)
 Transaction ID: 0xd20d
 ▶ Flags: 0x0100 Standard query
 Questions: 1
 Answer RRs: 0
 Authority RRs: 0
 Additional RRs: 0
 ▼ Queries
 ▶ www.mit.edu: type A, class IN

14. 3, answers contain type, class, time to live, data length, and cname or address

15.

322	20.687750	192.168.254.70	192.168.254.254	DNS	71	Standard query 0xd20d A www.mit.edu
323	20.744261	192.168.254.254	192.168.254.70	DNS	160	Standard query response 0xd20d A www.mit.edu CNAME
324	24.385153	130.211.33.145	192.168.254.70	TLSv1.2	97	Application Data
325	24.385226	192.168.254.70	130.211.33.145	TCP	66	40718 → 443 [ACK] Seq=71 Ack=94 Win=2847 Len=0 TSval=87233

▶ Frame 323: 160 bytes on wire (1280 bits), 160 bytes captured (1280 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)
 ▶ Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70
 ▶ User Datagram Protocol, Src Port: 53, Dst Port: 50781
 ▼ Domain Name System (response)
 Transaction ID: 0xd20d
 ▶ Flags: 0x8180 Standard query response, No error
 Questions: 1
 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: 1800 (30 minutes)
 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: 60 (1 minute)
 Data length: 24
 CNAME: e9566.dscb.akamaiedge.net
 ▼ e9566.dscb.akamaiedge.net: type A, class IN, addr 23.47.25.62
 Name: e9566.dscb.akamaiedge.net
 Type: A (Host Address) (1)
 Class: IN (0x0001)
 Time to live: 20 (20 seconds)
 Data length: 4
 Address: 23.47.25.62

16. Address 192.168.254.254

172	4.257883	192.168.254.70	192.168.254.254	DNS	67	Standard query 0x054
173	4.282288	192.168.254.254	192.168.254.70	DNS	234	Standard query response

Yes

```

nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20
nameserver[0] : 192.168.254.254
nameserver[1] : 207.91.5.20

```

17. NS, does not contain answers

172	4.257883	192.168.254.70	192.168.254.254	DNS	67	Standard query 0x0543
173	4.282288	192.168.254.254	192.168.254.70	DNS	234	Standard query response 0x0543
174	6.841000	104.26.11.153	192.168.254.70	TLSv1.2	95	Application Data
175	6.841095	192.168.254.70	104.26.11.153	TCP	54	64905 → 443 [ACK] Seq=3047224031
176	8.684012	104.26.11.153	192.168.254.70	TLSv1.2	81	Application Data

▶ Frame 172: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
 ▶ Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
 ▶ User Datagram Protocol, Src Port: 54900, Dst Port: 53
 ▼ Domain Name System (query)
 Transaction ID: 0x0543
 ▶ Flags: 0x0100 Standard query
 Questions: 1
 Answer RRs: 0
 Authority RRs: 0
 Additional RRs: 0
 ▼ Queries
 ▶ mit.edu: type NS, class IN

18. No, it does not provide IP addresses

172	4.257883	192.168.254.70	192.168.254.254	DNS	67	Standard query 0x0543
173	4.282288	192.168.254.254	192.168.254.70	DNS	234	Standard query response 0x0543
174	6.841000	104.26.11.153	192.168.254.70	TLSv1.2	95	Application Data
175	6.841095	192.168.254.70	104.26.11.153	TCP	54	64905 → 443 [ACK] Seq=3047224031
176	8.684012	104.26.11.153	192.168.254.70	TLSv1.2	81	Application Data

▶ Frame 173: 234 bytes on wire (1872 bits), 234 bytes captured (1872 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)
 ▶ Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70
 ▶ User Datagram Protocol, Src Port: 53, Dst Port: 54900
 ▼ Domain Name System (response)
 Transaction ID: 0x0543
 ▶ Flags: 0x8180 Standard query response, No error
 Questions: 1
 Answer RRs: 8
 Authority RRs: 0
 Additional RRs: 0
 ▶ Queries
 ▼ Answers
 ▶ mit.edu: type NS, class IN, ns ns1-173.akam.net
 ▶ mit.edu: type NS, class IN, ns ns1-37.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 use5.akam.net

19.

172	4.257883	192.168.254.70	192.168.254.254	DNS	67	Standard query 0x054
173	4.282288	192.168.254.254	192.168.254.70	DNS	234	Standard query respo
174	6.841000	104.26.11.153	192.168.254.70	TLSv1.2	95	Application Data
175	6.841095	192.168.254.70	104.26.11.153	TCP	54	64905 → 443 [ACK] Se
176	8.684012	104.26.11.153	192.168.254.70	TLSv1.2	81	Application Data

▶	Frame 173: 234 bytes on wire (1872 bits), 234 bytes captured (1872 bits) on interface en0, id 0
▶	Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)
▶	Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70
▶	User Datagram Protocol, Src Port: 53, Dst Port: 54900
▼	Domain Name System (response)
	Transaction ID: 0x0543
▶	Flags: 0x8180 Standard query response, No error
	Questions: 1
	Answer RRs: 8
	Authority RRs: 0
	Additional RRs: 0
▶	Queries
▼	Answers
▼	mit.edu: type NS, class IN, ns ns1-173.akam.net
	Name: mit.edu
	Type: NS (authoritative Name Server) (2)
	Class: IN (0x0001)
	Time to live: 1778 (29 minutes, 38 seconds)
	Data length: 18
	Name Server: ns1-173.akam.net
▼	mit.edu: type NS, class IN, ns ns1-37.akam.net
	Name: mit.edu
	Type: NS (authoritative Name Server) (2)
	Class: IN (0x0001)
	Time to live: 1778 (29 minutes, 38 seconds)
	Data length: 9
	Name Server: ns1-37.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 use5.akam.net

20. 192.168.254.254

Yes

21. A, does not contain answers

3252	24.766926	192.168.254.70	192.168.254.254	DNS	74	Standard query 0xa6e6
3255	25.770883	192.168.254.70	207.91.5.20	DNS	74	Standard query 0xa6e6
3256	25.772323	192.168.254.254	192.168.254.70	DNS	90	Standard query response 0xa6e6
3257	26.214871	207.91.5.20	192.168.254.70	DNS	90	Standard query response 0xa6e6

▶ Frame 3252: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Apple_93:6e:ef (ac:bc:32:93:6e:ef), Dst: Actionte_73:ea:a0 (10:78:5b:73:ea:a0)
 ▶ Internet Protocol Version 4, Src: 192.168.254.70, Dst: 192.168.254.254
 ▶ User Datagram Protocol, Src Port: 65313, Dst Port: 53
 ▼ Domain Name System (query)
 Transaction ID: 0xa6e6
 ▶ Flags: 0x0100 Standard query
 Questions: 1
 Answer RRs: 0
 Authority RRs: 0
 Additional RRs: 0
 ▼ Queries
 ▶ www.aiit.or.kr: type A, class IN

22. 1, answer contains type, class, time to live, data length, and address
- 23.

3252	24.766926	192.168.254.70	192.168.254.254	DNS	74	Standard query 0xa6e6
3255	25.770883	192.168.254.70	207.91.5.20	DNS	74	Standard query 0xa6e6
3256	25.772323	192.168.254.254	192.168.254.70	DNS	90	Standard query response 0xa6e6
3257	26.214871	207.91.5.20	192.168.254.70	DNS	90	Standard query response 0xa6e6

▶ Frame 3256: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface en0, id 0
 ▶ Ethernet II, Src: Actionte_73:ea:a0 (10:78:5b:73:ea:a0), Dst: Apple_93:6e:ef (ac:bc:32:93:6e:ef)
 ▶ Internet Protocol Version 4, Src: 192.168.254.254, Dst: 192.168.254.70
 ▶ User Datagram Protocol, Src Port: 53, Dst Port: 65313
 ▼ Domain Name System (response)
 Transaction ID: 0xa6e6
 ▶ Flags: 0x8180 Standard query response, No error
 Questions: 1
 Answer RRs: 1
 Authority RRs: 0
 Additional RRs: 0
 ▼ Queries
 ▶ www.aiit.or.kr: type A, class IN
 ▼ Answers
 ▼ www.aiit.or.kr: type A, class IN, addr 58.229.6.225
 Name: www.aiit.or.kr
 Type: A (Host Address) (1)
 Class: IN (0x0001)
 Time to live: 3600 (1 hour)
 Data length: 4
 Address: 58.229.6.225