

DNS

1.

```
C:\Users\afons>nslookup www.aiit.or.kr
Server:  UnKnown
Address:  192.168.0.1

DNS request timed out.
    timeout was 2 seconds.
Non-authoritative answer:
Name:     www.aiit.or.kr
Address:  58.229.6.225
```

2.

```
Non-authoritative answer:
Name:     ualg.pt
Address:  193.136.224.33
```

3.

```
Non-authoritative answer:
Name:     yahoomail.com
Addresses: 124.108.115.100
           212.82.100.150
           106.10.248.150
           98.136.103.23
           74.6.136.150
```

4.UDP

5. 53

6. 192.168.0.1

7. 3

8. 3

9. no

10. No request

11. dst 53, src 50701

12. 192.168.0.1

13. no answer, type A

14. 3 ansewers, Ips

15.

```
> Frame 199: 149 bytes on wire (1192 bits), 149 bytes captured (1192 bits) on interface \Device\NPF_{75C30A58-23A2-48C2-9A76-C7CA04D7A4}
> Ethernet II, Src: zte_98:02:59 (b0:0a:d5:98:02:59), Dst: Micro-St_ca:d0:03 (d8:bb:c1:ca:d0:03)
> Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.111
> User Datagram Protocol, Src Port: 53, Dst Port: 50701
> Domain Name System (response)
  Transaction ID: 0x3030
  > Flags: 0x8180 Standard query response, No error
  Questions: 1
  Answer RRs: 3
  Authority RRs: 0
  Additional RRs: 0
  > Queries
    > www.ietf.org: type A, class IN
      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 A, class IN, addr 104.16.44.99
      > www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.45.99
      [Request In: 185]
      [Time: 0.040477000 seconds]
```

16. 2.19.42.129

17. NS, no

18. No responses

19.

129 0.718022	192.168.0.111	2.19.42.129	DNS	84 Standard query 0x0001 PTR 129.42.19.2.in-addr.arpa
468 2.879500	192.168.0.111	192.168.0.1	DNS	90 Standard query 0x5303 A clientconfig.rpg.riotgames.com
484 2.111226	192.168.0.111	192.168.0.1	DNS	90 Standard query 0x5303 A clientconfig.rpg.riotgames.com
486 2.114031	192.168.0.1	192.168.0.111	DNS	122 Standard query response 0x5303 A clientconfig.rpg.riotgames.com A 104.18.157.37 A 104.18.156.37
628 2.716469	192.168.0.111	2.19.42.129	DNS	68 Standard query 0x0002 A type=NS
1114 4.729284	192.168.0.111	2.19.42.129	DNS	68 Standard query 0x0003 AAAA type=NS

```
> Frame 628: 68 bytes on wire (544 bits), 68 bytes captured (544 bits) on interface \Device\NPF_{75C30A58-23A2-48C2-9A76-C7CA04D7A403}
> Ethernet II, Src: Micro-St_ca:d0:03 (d8:bb:c1:ca:d0:03), Dst: zte_98:02:59 (b0:0a:d5:98:02:59)
> Internet Protocol Version 4, Src: 192.168.0.111, Dst: 2.19.42.129
> User Datagram Protocol, Src Port: 5356, Dst Port: 53
> Domain Name System (query)
  Transaction ID: 0x0002
  > Flags: 0x0100 Standard query
  Questions: 1
  Answer RRs: 0
  Authority RRs: 0
  Additional RRs: 0
  > Queries
    > type=NS: type A, class IN
      Name: type=NS
      [Name Length: 8]
      [Label Count: 1]
      Type: A (Host Address) (1)
      Class: IN (0x0001)
```

20. 18.0.72.3, no

21. no message, AAAA, no

22. no response, no answers

23.

No.	Time	Source	Destination	Protocol	Length	Info
98	0.765722	192.168.0.111	18.0.72.3	DNS	82	Standard query 0x0001 PTR 3.72.0.18. In-addr.arpa
433	1.529087	192.168.0.111	192.168.0.1	DNS	92	Standard query 0xa0b6 A mobile.events.data.microsoft.com
437	1.527783	192.168.0.1	192.168.0.111	DNS	215	Standard query response 0xa0b6 A mobile.events.data.microsoft.com CNAME mobile.events.data.trafficmanager.net CNAME onedcolprduis10-eastus.cloudapp.azure.com A 52.168.117.169
646	2.457348	192.168.0.111	192.168.0.1	DNS	78	Standard query 0x707a A login.spotify.com
657	2.500570	192.168.0.1	192.168.0.111	DNS	138	Standard query response 0x707a A login.spotify.com CNAME edge-web.dual-gslb.spotify.com A 35.186.224.25
701	2.783783	192.168.0.111	18.0.72.3	DNS	74	Standard query 0x0002 A www.sllit.or.kr
1809	6.793045	192.168.0.111	18.0.72.3	DNS	74	Standard query 0x0003 AAAA www.sllit.or.kr
1806	6.801859	192.168.0.111	18.0.72.3	DNS	74	Standard query 0x0004 A www.sllit.or.kr
2005	8.811823	192.168.0.111	18.0.72.3	DNS	74	Standard query 0x0005 AAAA www.sllit.or.kr

> Frame 1809: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{75C38A58-23A2-48C2-9A76-C7CAB4D7A483}

> Ethernet II, Src: Micro-St-ca:d8:03 (d8:bb:c1:ca:d8:03), Dst: zte_96:02:59 (96:0a:d5:96:02:59)

> Internet Protocol Version 4, Src: 192.168.0.111, Dst: 18.0.72.3

> User Datagram Protocol, Src Port: 57093, Dst Port: 53

▼ Domain Name System (query)

Transaction ID: 0x0003

Flags: 0x0100 Standard query

Questions: 1

Answer RRs: 0

Authority RRs: 0

Additional RRs: 0

▼ Questions

www.sllit.or.kr: type AAAA, class IN

Name: www.sllit.or.kr

[Name Length: 14]

[Label Count: 4]

Type: AAAA (IPv6 Address) (28)

Class: IN (0x0001)

0000 00 0a d5 96 02 59 d8 3b c1 ca d8 03 00 00 45 00Y.....E

0010 00 3c 7b 36 00 00 11 00 00 c0 a0 00 6f 12 00qj6.....0..

0020 48 03 e1 25 00 75 00 28 1b 54 00 03 02 00 00 01 H..S..f.....

0030 00 00 00 00 00 00 77 77 77 04 63 63 74 054www.sllit

0040 18 02 02 02 00 00 00 000.0.0.0