



Лабораториска вежба бр. 2	DNS протокол		
Име и презиме	Индекс	Група	Датум
Бојан Ристов	211151	Група 8 (СИИС)	12.11.2022

01. 160.16.123.100

02. Non-authoritative answer:

cam.ac.uk nameserver = ns1.mythic-beasts.com

cam.ac.uk nameserver = auth0.dns.cam.ac.uk

cam.ac.uk nameserver = dns0.cl.cam.ac.uk

cam.ac.uk nameserver = dns0.eng.cam.ac.uk

cam.ac.uk nameserver = ns3.mythic-beasts.com

cam.ac.uk nameserver = ns2.ic.ac.uk

03. 128.232.132.8

04. UDP

05. Destination Port: 53 | Source Port: 53

06. Destination Address: 217.16.82.93

DNS Servers: 217.16.82.93 | 217.16.82.92 (исти се)

07. Type A | Answer: 0

08. Answers: 3

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 104.16.45.99

www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.44.99

09. IP Address: 104.16.44.99

10. He

11. Destination Port: 53 | Source Port: 53

12. Destination Address: 217.16.82.93 | Исти се

13. Type A | Answer: 0

14. Answers: 1

mit.edu: type A, class IN, addr 104.103.85.139



15.

No.	Time	Source	Destination	Protocol	Length	Info
38	11.114796	192.168.0.28	217.16.82.93	DNS	74	Standard query 0x8c36 A 0.pool.ntp.org
39	11.130700	217.16.82.93	192.168.0.28	DNS	500	Standard query response 0x8c36 A 0.pool.ntp.org A 195.26.136.200 A 79.99.56.71 A 79.99.56.72 NS g.ntps.org NS d.ntps.org NS f.ntp...
44	11.181521	192.168.0.28	217.16.82.93	DNS	74	Standard query 0x21bc A 2.pool.ntp.org
45	11.193273	217.16.82.93	192.168.0.28	DNS	500	Standard query response 0x21bc A 2.pool.ntp.org A 79.99.56.71 A 195.26.136.200 A 79.99.56.72 NS e.ntps.org NS c.ntps.org NS a.ntp...
48	11.223339	192.168.0.28	217.16.82.93	DNS	74	Standard query 0xc20 A 3.pool.ntp.org
49	11.246514	217.16.82.93	192.168.0.28	DNS	500	Standard query response 0xc20 A 3.pool.ntp.org A 79.99.56.72 A 195.26.136.200 A 79.99.56.71 NS d.ntps.org NS b.ntps.org NS e.ntp...
52	12.440800	192.168.0.28	217.16.82.93	DNS	85	Standard query 0x0001 PTR 93.82.16.217.in-addr.arpa
53	12.458883	217.16.82.93	192.168.0.28	DNS	234	Standard query response 0x0001 PTR 93.82.16.217.in-addr.arpa PTR onevip-bfix-dns-2.onevip.mk NS ns3.on.net.mk NS ns2.on.net.mk NS n...
54	12.461501	192.168.0.28	217.16.82.93	DNS	67	Standard query 0x0002 A mit.edu
55	12.505707	192.168.0.28	192.168.0.28	DNS	434	Standard query response 0x0002 A mit.edu A 104.103.85.139 NS use2.akam.net NS asial.akam.net NS usu2.akam.net NS eur5.akam.net NS a...
56	12.509902	192.168.0.28	217.16.82.93	DNS	67	Standard query 0x0003 AAAA mit.edu
57	12.551915	217.16.82.93	192.168.0.28	DNS	474	Standard query response 0x0003 AAAA mit.edu AAAA 2a02:26f0:2b00:dbf::255e AAAA 2a02:26f0:2b00:dbf::255e NS use2.akam.net NS ns1-37...

Source Address: 217.16.82.93
Destination Address: 192.168.0.28

✓ User Datagram Protocol, Src Port: 53, Dst Port: 59131

Source Port: 53
Destination Port: 59131
Length: 400
Checksum: 0x504f [unverified]
[Checksum Status: Unverified]
[Stream index: 10]
[Timestamps]
UDP payload (392 bytes)

✓ Domain Name System (response)

Transaction ID: 0x0002

Flags: 0x8180 Standard query response, No error

Questions: 1
Answer RRs: 1
Authority RRs: 8
Additional RRs: 10

✓ Queries

mit.edu: type A, class IN

✓ Answers

mit.edu: type A, class IN, addr 104.103.85.139

✓ Authoritative nameservers

✓ Additional records

[Request in: 54]
[Time: 0.044206000 seconds]

16. Destination Address: 217.16.82.93 | Да

17. Type NS | Answer: 0

18. Additional records

eur5.akam.net: type A, class IN, addr 23.74.25.64

Name: eur5.akam.net

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 13149 (3 hours, 39 minutes, 9 seconds)

Data length: 4

Address: 23.74.25.64

19.

No.	Time	Source	Destination	Protocol	Length	Info
10	3.779993	192.168.0.28	217.16.82.93	DNS	85	Standard query 0x0001 PTR 93.82.16.217.in-addr.arpa
11	3.793826	217.16.82.93	192.168.0.28	DNS	234	Standard query response 0x0001 PTR 93.82.16.217.in-addr.arpa PTR onevip-bfix-dns-2.onevip.mk NS ns.on.net.mk NS ns2.on.net.mk NS ns...
12	3.796076	192.168.0.28	217.16.82.93	DNS	67	Standard query 0x0002 NS mit.edu
13	3.854553	217.16.82.93	192.168.0.28	DNS	418	Standard query response 0x0002 NS mit.edu NS asia2.akam.net NS asial.akam.net NS usu2.akam.net NS ns1-173.akam.net NS ns1-37.akam.n...

> Frame 13: 418 bytes on wire (3344 bits), 418 bytes captured (3344 bits) on interface \Device\NPF{B04C0AD4-530E-4278-BE4B-000C37E82C22}, id 0

> Ethernet II, Src: Chongjin_9f:e5:db (48:23:43:9f:e5:db), Dst: IntelCor_42:c0:a2 (68:54:5a:42:c0:a2)

> Internet Protocol Version 4, Src: 217.16.82.93, Dst: 192.168.0.28

> User Datagram Protocol, Src Port: 53, Dst Port: 53064

✓ Domain Name System (response)

Transaction ID: 0x0002

Flags: 0x8180 Standard query response, No error

Questions: 1
Answer RRs: 8
Authority RRs: 0
Additional RRs: 10

✓ Queries

Answers

✓ Additional records

eur5.akam.net: type A, class IN, addr 23.74.25.64

Name: eur5.akam.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 13149 (3 hours, 39 minutes, 9 seconds)
Data length: 4
Address: 23.74.25.64

asial.akam.net: type A, class IN, addr 95.100.175.64

Name: asial.akam.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 13066 (3 hours, 37 minutes, 46 seconds)
Data length: 4
Address: 95.100.175.64

ns1-173.akam.net: type A, class IN, addr 193.108.91.173

Name: ns1-173.akam.net
Type: A (Host Address) (1)
Class: IN (0x0001)
Time to live: 60217 (16 hours, 43 minutes, 37 seconds)
Data length: 4



20. Destination Address: 8.8.8.8 | He

21. Type A | Answer: 0

22. Answers: 2

dns.google: type A, class IN, addr 8.8.8.8

dns.google: type A, class IN, addr 8.8.4.4

dns.google: type A, class IN, addr 8.8.8.8

Name: dns.google

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 735 (12 minutes, 15 seconds)

Data length: 4

Address: 8.8.8.8

dns.google: type A, class IN, addr 8.8.4.4

Name: dns.google

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 735 (12 minutes, 15 seconds)

Data length: 4

Address: 8.8.4.4

23.

No.	Time	Source	Destination	Protocol	Length	Info
13	4.614873	192.168.0.28	217.16.82.93	DNS	70	Standard query 0x49ab A dns.google
14	4.634717	217.16.82.93	192.168.0.28	DNS	355	Standard query response 0x49ab A dns.google A 8.8.8.8 A 8.8.4.4 NS ns3.zdns.google NS ns4.zdns.google NS ns1.zdn...
15	4.638219	192.168.0.28	8.8.8.8	DNS	80	Standard query 0x0001 PTR 8.8.8.8.in-addr.arpa
16	4.674260	8.8.8.8	192.168.0.28	DNS	104	Standard query response 0x0001 PTR 8.8.8.8.in-addr.arpa PTR dns.google
17	4.676683	192.168.0.28	8.8.8.8	DNS	74	Standard query 0x0002 A www.ait.or.kr
19	5.328238	8.8.8.8	192.168.0.28	DNS	98	Standard query response 0x0002 A www.ait.or.kr A 58.229.6.225
20	5.324863	192.168.0.28	8.8.8.8	DNS	74	Standard query 0x0003 AAAA www.ait.or.kr
21	5.928277	8.8.8.8	192.168.0.28	DNS	128	Standard query response 0x0003 AAAA www.ait.or.kr SOA ns9.dnszi.com

> Internet Protocol Version 4, Src: 217.16.82.93, Dst: 192.168.0.28

> User Datagram Protocol, Src Port: 53, Dst Port: 53232

> Domain Name System (response)

Transaction ID: 0x49ab

> Flags: 0x8180 Standard query response, No error

Questions: 1

Answer RRs: 2

Authority RRs: 4

Additional RRs: 8

> Queries

> dns.google: type A, class IN

> Answers

> dns.google: type A, class IN, addr 8.8.8.8

Name: dns.google

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 735 (12 minutes, 15 seconds)

Data length: 4

Address: 8.8.8.8

> dns.google: type A, class IN, addr 8.8.4.4

Name: dns.google

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 735 (12 minutes, 15 seconds)

Data length: 4

Address: 8.8.4.4

> Authoritative nameservers

> Additional records

[Request in: 13]

[Time: 0.019844000 seconds]