

11. source port 51379, destination port 53
12. Destination: 128.200.192.202, yes it is the default local dns
13. Type A DNS query, has no answers
14. 3 answer, the host name and two CNAME answers
- 15.

Query:

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11 5.021755      169.234.46.26      128.200.192.202      DNS      71      Standard query 0x0005 AAAA www.mit.edu
Frame 11: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface 0
Ethernet II, Src: HonHaiPr_f9:11:5f (c4:8e:8f:f9:11:5f), Dst: Cisco_d4:14:00 (00:19:07:d4:14:00)
Internet Protocol Version 4, Src: 169.234.46.26, Dst: 128.200.192.202
User Datagram Protocol, Src Port: 51379, Dst Port: 53
Domain Name System (query)

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Response:

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12 5.024218      128.200.192.202      169.234.46.26      DNS      545      Standard query response 0x0005 AAAA www.mit.edu CNAME
www.mit.edu.edgekey.net CNAME e9566.dscb.akamaiedge.net AAAA 2600:1406:3:387::255e AAAA 2600:1406:3:38b::255e NS n7dscb.akamaiedge.net NS
a0dscb.akamaiedge.net NS n6dscb.akamaiedge.net NS n5dscb.akamaiedge.net NS n0dscb.akamaiedge.net NS n3dscb.akamaiedge.net NS
n4dscb.akamaiedge.net NS n1dscb.akamaiedge.net NS n2dscb.akamaiedge.net A 88.221.81.192 A 96.17.70.193 A 96.17.70.194 A 173.223.52.132 A
23.67.56.215 A 96.17.70.188 A 165.254.16.93 A 96.17.70.194 AAAA 2600:1480:e800::c0
Frame 12: 545 bytes on wire (4360 bits), 545 bytes captured (4360 bits) on interface 0
Ethernet II, Src: Cisco_d4:14:00 (00:19:07:d4:14:00), Dst: HonHaiPr_f9:11:5f (c4:8e:8f:f9:11:5f)
Internet Protocol Version 4, Src: 128.200.192.202, Dst: 169.234.46.26
User Datagram Protocol, Src Port: 53, Dst Port: 51379
Domain Name System (response)

```

16. Destination: 128.200.192.202, yes is local DNS
17. Is a NS type Query, has one answer, the host name
18. Provides the name servers: asia1.akam.net, ns1-37.akam.net, use5.akam.net, eur5.akam.net, ns1-173.akam.net , asia2.akam.net , usw2.akam.net , use2.akam.net A

And their ip addresses: 23.74.25.64, 193.108.91.173, 2600:1401:2::ad, 95.101.36.64, 184.26.161.64, 96.7.49.64, 95.100.175.64, 193.108.91.37, 2.16.40.64, 2600:1403:a::40

- 19.

Query:

```

32 8.091044      169.234.46.26      128.200.192.202      DNS      67      Standard query 0x0003 NS mit.edu
Frame 32: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface 0
Ethernet II, Src: HonHaiPr_f9:11:5f (c4:8e:8f:f9:11:5f), Dst: Cisco_d4:14:00 (00:19:07:d4:14:00)
Internet Protocol Version 4, Src: 169.234.46.26, Dst: 128.200.192.202
User Datagram Protocol, Src Port: 62706, Dst Port: 53
Domain Name System (query)

```

Response :

16 4.135319 128.200.192.202 169.234.46.26 DNS 446 Standard query response 0x0003 NS mit.edu NS  
asia1.akam.net NS asia2.akam.net NS ns1-173.akam.net NS use2.akam.net NS eur5.akam.net NS ns1-37.akam.net NS usw2.akam.net NS use5.akam.net  
A 23.74.25.64 A 96.7.49.64 A 2.16.40.64 A 184.26.161.64 A 95.100.175.64 A 95.101.36.64 A 193.108.91.37 A 193.108.91.173 AAAA  
2600:1401:1::40 AAAA 2600:1401:2::25 AAAA 2600:1401:2::ad  
Frame 16: 446 bytes on wire (3568 bits), 446 bytes captured (3568 bits) on interface 0  
Ethernet II, Src: Cisco\_d4:14:00 (00:19:07:d4:14:00), Dst: HonHaiPr\_f9:11:5f (c4:8e:8f:f9:11:5f)  
Internet Protocol Version 4, Src: 128.200.192.202, Dst: 169.234.46.26  
User Datagram Protocol, Src Port: 53, Dst Port: 55316  
Domain Name System (response)